


STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐**APPLICATION FOR PERMIT TO DRILL**

2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>				1. WELL NAME and NUMBER Greater Boundary II Federal Q-21-8-17		
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO				3. FIELD OR WILDCAT MONUMENT BUTTE		
6. NAME OF OPERATOR NEWFIELD PRODUCTION COMPANY				5. UNIT or COMMUNITIZATION AGREEMENT NAME GMBU (GRRV)		
8. ADDRESS OF OPERATOR Rt 3 Box 3630 , Myton, UT, 84052				7. OPERATOR PHONE 435 646-4825		
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU-76954		11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>		9. OPERATOR E-MAIL mcrozier@newfield.com		
13. NAME OF SURFACE OWNER (if box 12 = 'fee') John Dyer/Boundary Farms LLC				12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>		
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') 475 17th Street, Suite 510, ,				14. SURFACE OWNER PHONE (if box 12 = 'fee')		
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')		18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>		16. SURFACE OWNER E-MAIL (if box 12 = 'fee')		
19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>						
20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	1810 FSL 661 FWL	NWSW	21	8.0 S	17.0 E	S
Top of Uppermost Producing Zone	1205 FSL 1300 FWL	SWSW	21	8.0 S	17.0 E	S
At Total Depth	1205 FSL 1300 FWL	SWSW	21	8.0 S	17.0 E	S
21. COUNTY DUCHESNE		22. DISTANCE TO NEAREST LEASE LINE (Feet) 1205		23. NUMBER OF ACRES IN DRILLING UNIT 20		
		25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1485		26. PROPOSED DEPTH MD: 6676 TVD: 6676		
27. ELEVATION - GROUND LEVEL 5250		28. BOND NUMBER WYB000493		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-7478		

ATTACHMENTS**VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES**

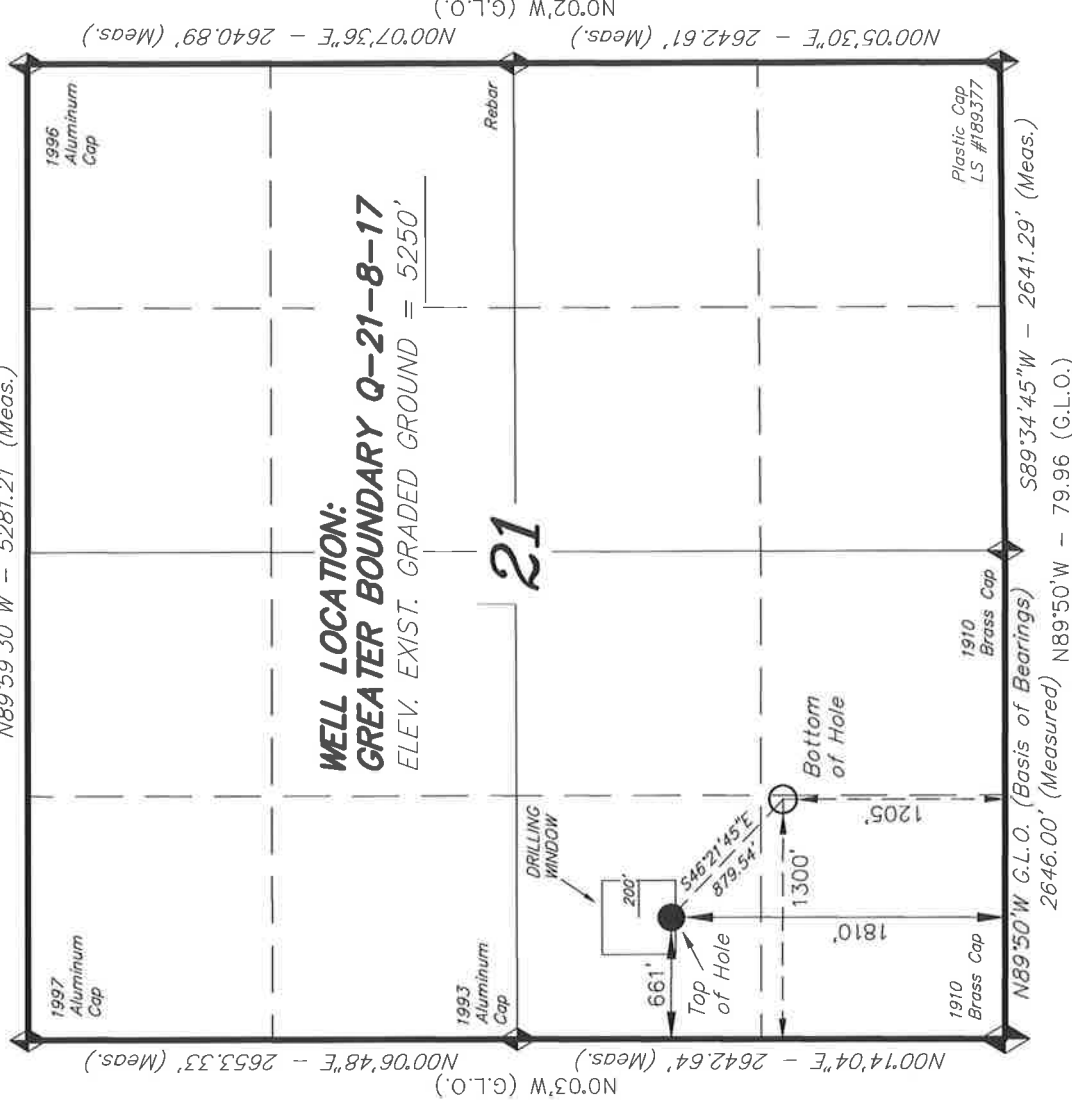
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP
NAME Mandie Crozier	TITLE Regulatory Tech
SIGNATURE	DATE 10/27/2009
PHONE 435 646-4825	EMAIL mcrozier@newfield.com
API NUMBER ASSIGNED 43013501750000	APPROVAL  Permit Manager

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	5.5	0	6676		
Pipe	Grade	Length	Weight			
	Grade J-55 LT&C	6676	15.5			

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	12.25	8.625	0	300		
Pipe	Grade	Length	Weight			
	Grade K-55 ST&C	300	24.0			

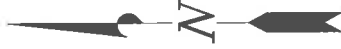
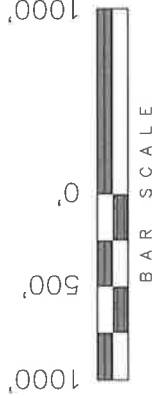
T8S, R17E, S.L.B.&M.

S89°48'W - 79.94' (G.L.O.)
N89°59'30"W - 5281.21' (Meas.)



NEWFIELD PRODUCTION COMPANY

WELL LOCATION, GREATER BOUNDARY
Q-21-8-17, LOCATED AS SHOWN IN THE
NW 1/4 SW 1/4 OF SECTION 21, T8S,
R17E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS
PREPARED FROM FIELD NOTES OF SURVEYS
MADE BY ME OR UNDER MY SUPERVISION AND THAT
THE SAME ARE TRUE AND CORRECT TO THE BEST OF
MY KNOWLEDGE AND BELIEF.

LS No. 189377

STACY W.

REGISTERED LAND SURVEYOR

STATE OF UTAH

TRI STATE LAND SURVEYING & CONSULTING

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078

(435) 781-2501

DATE SURVEYED: 12-03-08	SURVEYED BY: C.M.
DATE DRAWN: 12-16-08	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'

GREATER BOUNDARY Q-21-8-17
(Surface Location) NAD 83
LATITUDE = 40° 06' 04.17"
LONGITUDE = 110° 01' 06.70"

◆ = SECTION CORNERS LOCATED

BASIS OF ELEV;

U.S.G.S. 7-1/2 min QUAD (MYTON SE)

Surface Use Agreement

This Agreement is made and entered into effective the 1st day of June, 2000, by and between Boundary Farms LLC, located at 475 17th Street, Suite 510, Denver, CO 80202 hereinafter referred to as "Owner" and Inland Production Company, located at 410 17th Street, Suite 700, Denver, CO 80202, or its successor, hereinafter referred to as "Operator";

WITNESSETH:

WHEREAS, Owner is the owner in fee of all or a portion of the surface to the following described lands situated in Duchesne County, Utah, to-wit:

Township 8 South, Range 17 East, S.L.M.

Section 20: NE/4SE/4

Section 21: SW/4

Section 28: N/2NW

WHEREAS, the parties desire to settle their dispute on all claims for use of the surface and damage to crops arising from the drilling, completion and production activities and operations, and agree as to the measure of settlement for operations conducted by Operator on surface owned or controlled by Owner, above described, subject to the terms of this Agreement.

NOW, THEREFORE, in consideration of the covenants and agreements herein contained, and other good and valuable consideration acknowledged and received, the parties hereto agree:

1. Owner hereby gives, grants and conveys unto Operator, its agents, employees and assigns, a right to enter upon and use the above-described property of Owner for the purpose of erecting, and maintaining wellsite locations together with the right-of-way and easement to maintain the wellsites and any other such related facilities being necessary for the Operator's complete enjoyment and rights. Owner shall be compensated annually the sum of FIVE HUNDRED AND NO/100 DOLLARS (\$500.00) for each wellsite located on the subject property, such payments shall be made on an annual basis within thirty (30) business days of the effective date of this Agreement. Provided however, such payments shall be waived by Owner so long as Inland Production Company or its first immediate third-party non-affiliated successor, is the designated operator of the above-described property.

2. Operator shall notify Owner thirty (30) days in advance of its intent to construct wellsite locations on the above-described property. Owner and Operator will work under best efforts to mutually locate wellsite locations and other such related facilities including well access roads and pipelines for the purpose of minimizing the damage to agricultural fields.

3. Following the completion of any well or pipeline construction, Operator agrees to promptly clean up and maintain all areas of land continuing to be utilized in connection with oil and gas operations and to pay the cost of reclaiming and reseeding upon cessation of use.

4. For pipeline right-of-way construction in which a pipeline is laid through the subject property, Operator will make all possible efforts for construction operation to take place after fall harvest and prior to spring planting.

5. When requested, Operator agrees to bury all pipelines to a depth that is sufficient to avoid interference with operations of the Owner. Surface areas impacted by the construction shall be rehabilitated, including the reseeding of cropland at Operator expense.

6. The Operator shall have the right of ingress and egress to and from the premises for any and all purposes necessary or convenient to the exercise by Operator of the rights granted herein.

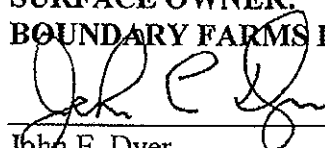
7. Operator agrees to compensate Owner for extraordinary loss or damages caused by Operator, its agents or employees to Owner's property or livestock, and that of its surface lessee, if any. Payments herein provided are acknowledged by Owner sufficient and in full for damages caused or created by reason of the reasonable and customary entry, and subsequent operation of said wellsite.

8. Operator will conduct its operations in a reasonable, prudent and safe manner consistent with custom industry practices used in the area. Operator agrees to minimize as much as possible the disruption of the Owner's right to use its land for agricultural purposes.

This Agreement shall be binding upon and shall be for the benefit of the successors and assigns of both the Owner and Operator whether assigned, devised, bequeathed or otherwise transferred in whole or part by the Owner or Operator, as the case may be. The conditions herein contained shall be covenants running with the land.

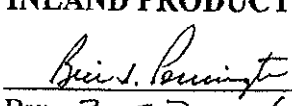
IN WITNESS WHEREOF, the parties have executed this Agreement as of the 11th day of August, 2000.

**SURFACE OWNER:
BOUNDARY FARMS LLC**



John E. Dyer
Manager

**OPERATOR:
INLAND PRODUCTION COMPANY**

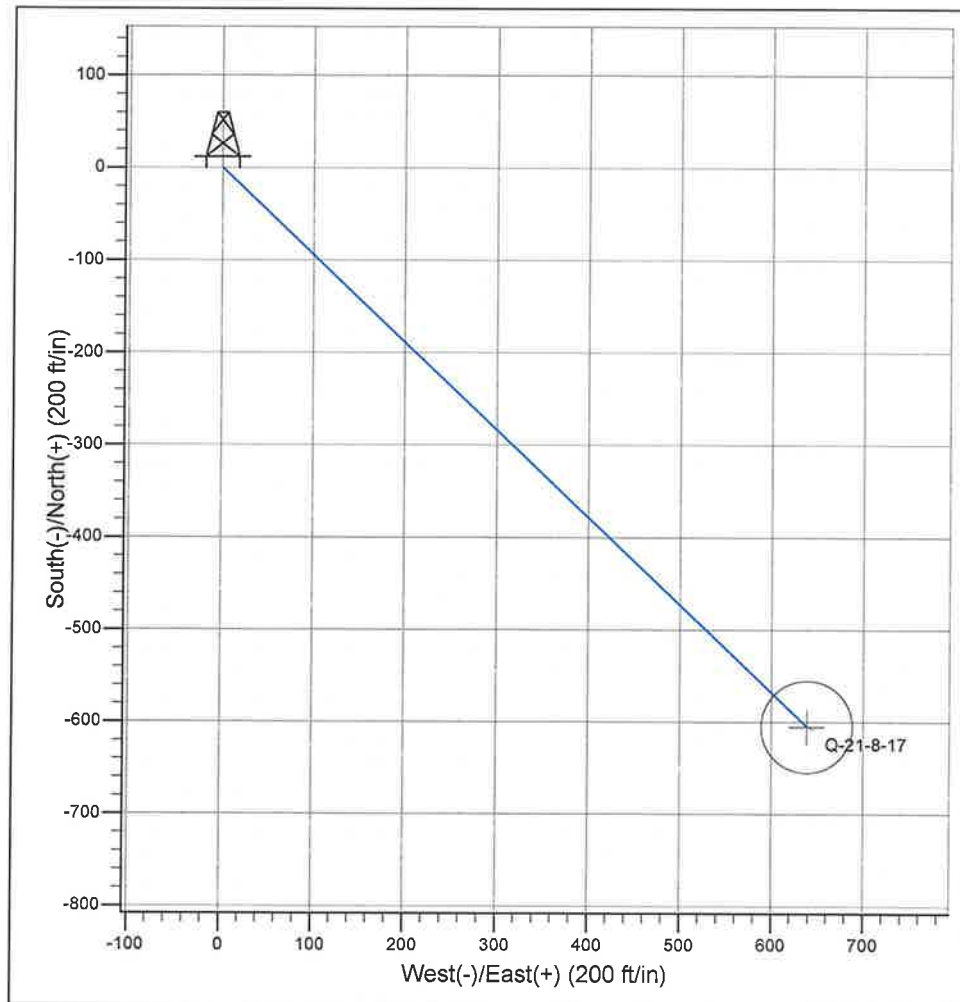
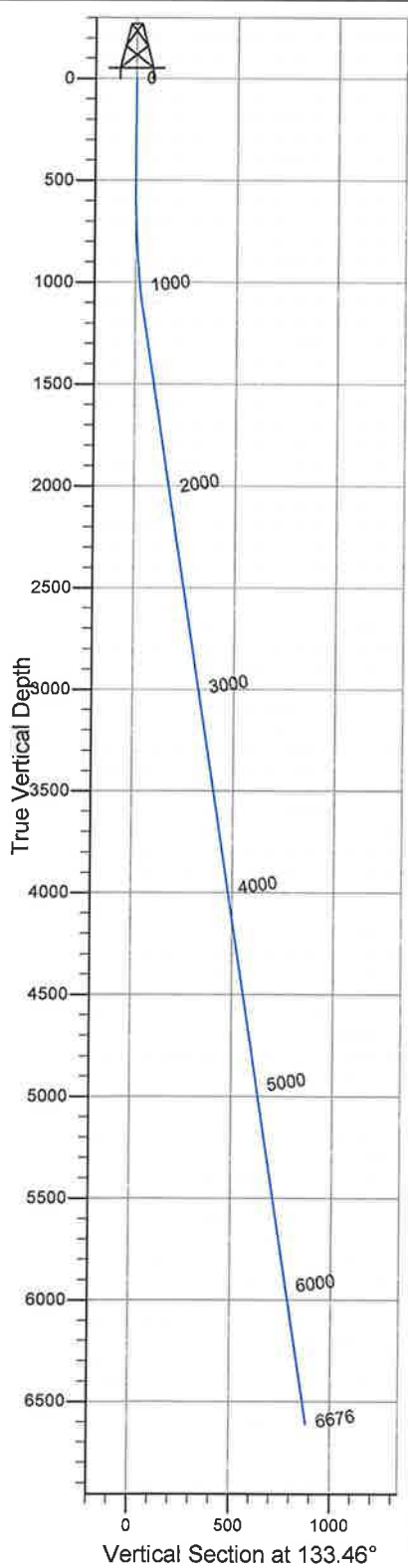


By: Bill E. Pannington
Title: CEO / CFO



Newfield Production Company

Project: Monument Butte
Site: Greater Boundary Q-21-8-17
Well: Greater Boundary Q-21-8-17
Wellbore: Wellbore #1
Design: Design #1



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1183.0	8.74	133.46	1180.7	-30.5	32.2	1.50	133.46	44.4	
4	6676.1	8.74	133.46	6610.0	-605.0	638.4	0.00	0.00	879.5	Q-21-8-17

PROJECT DETAILS: Monument Butte

Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: Utah Central Zone
 System Datum: Mean Sea Level



Azimuths to True North
 Magnetic North: 11.59°

Magnetic Field
 Strength: 52572.3snT
 Dip Angle: 65.92°
 Date: 1/27/2009
 Model: IGRF200510

Created by: Hans Wychgram

Date: 01-27-2009

NEWFIELD

Newfield Production Company
Planning Report

Database: EDM 2003.21 Single User Db
Company: Newfield Production Company
Project: Monument Butte
Site: Greater Boundary Q-21-8-17
Well: Greater Boundary Q-21-8-17
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Greater Boundary Q-21-8-17
TVD Reference: RKB @ 5262.0ft (NDSI #2)
MD Reference: RKB @ 5262.0ft (NDSI #2)
North Reference: True
Survey Calculation Method: Minimum Curvature

Project Monument Butte

Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: Utah Central Zone
System Datum: Mean Sea Level

Site Greater Boundary Q-21-8-17

Site Position:
From: Lat/Long
Position Uncertainty: 0.0 ft
Northing: 2,197,308.49 m
Easting: 626,304.55 m
Slot Radius: in
Latitude: 40° 6' 4.170 N
Longitude: 110° 1' 6.700 W
Grid Convergence: 0.95 °

Well Greater Boundary Q-21-8-17

Well Position +N/-S 0.0 ft
 +E/-W 0.0 ft
Position Uncertainty 0.0 ft
Northing: 2,197,308.49 m
Easting: 626,304.55 m
Wellhead Elevation: ft
Latitude: 40° 6' 4.170 N
Longitude: 110° 1' 6.700 W
Ground Level: 5,250.0 ft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	1/27/2009	11.60	65.92	52,572

Design Design #1

Audit Notes:

Version:
Phase: PROTOTYPE
Tie On Depth: 0.0

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	133.46

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,183.0	8.74	133.46	1,180.7	-30.5	32.2	1.50	1.50	0.00	133.46	
6,676.1	8.74	133.46	6,610.0	-605.0	638.4	0.00	0.00	0.00	0.00	Q-21-8-17

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TVD Reference: RKB @ 5262.0ft (NDSI #2)
MD Reference: RKB @ 5262.0ft (NDSI #2)
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	1.50	133.46	700.0	-0.9	1.0	1.3	1.50	1.50	0.00
800.0	3.00	133.46	799.9	-3.6	3.8	5.2	1.50	1.50	0.00
900.0	4.50	133.46	899.7	-8.1	8.5	11.8	1.50	1.50	0.00
1,000.0	6.00	133.46	999.3	-14.4	15.2	20.9	1.50	1.50	0.00
1,100.0	7.50	133.46	1,098.6	-22.5	23.7	32.7	1.50	1.50	0.00
1,183.0	8.74	133.46	1,180.7	-30.5	32.2	44.4	1.50	1.50	0.00
1,200.0	8.74	133.46	1,197.5	-32.3	34.1	47.0	0.00	0.00	0.00
1,300.0	8.74	133.46	1,296.4	-42.8	45.1	62.2	0.00	0.00	0.00
1,400.0	8.74	133.46	1,395.2	-53.2	56.2	77.4	0.00	0.00	0.00
1,500.0	8.74	133.46	1,494.1	-63.7	67.2	92.6	0.00	0.00	0.00
1,600.0	8.74	133.46	1,592.9	-74.2	78.2	107.8	0.00	0.00	0.00
1,700.0	8.74	133.46	1,691.7	-84.6	89.3	123.0	0.00	0.00	0.00
1,800.0	8.74	133.46	1,790.6	-95.1	100.3	138.2	0.00	0.00	0.00
1,900.0	8.74	133.46	1,889.4	-105.5	111.4	153.4	0.00	0.00	0.00
2,000.0	8.74	133.46	1,988.2	-116.0	122.4	168.6	0.00	0.00	0.00
2,100.0	8.74	133.46	2,087.1	-126.4	133.4	183.8	0.00	0.00	0.00
2,200.0	8.74	133.46	2,185.9	-136.9	144.5	199.0	0.00	0.00	0.00
2,300.0	8.74	133.46	2,284.8	-147.4	155.5	214.2	0.00	0.00	0.00
2,400.0	8.74	133.46	2,383.6	-157.8	166.5	229.4	0.00	0.00	0.00
2,500.0	8.74	133.46	2,482.4	-168.3	177.6	244.6	0.00	0.00	0.00
2,600.0	8.74	133.46	2,581.3	-178.7	188.6	259.8	0.00	0.00	0.00
2,700.0	8.74	133.46	2,680.1	-189.2	199.6	275.0	0.00	0.00	0.00
2,800.0	8.74	133.46	2,778.9	-199.6	210.7	290.2	0.00	0.00	0.00
2,900.0	8.74	133.46	2,877.8	-210.1	221.7	305.4	0.00	0.00	0.00
3,000.0	8.74	133.46	2,976.6	-220.6	232.7	320.6	0.00	0.00	0.00
3,100.0	8.74	133.46	3,075.5	-231.0	243.8	335.9	0.00	0.00	0.00
3,200.0	8.74	133.46	3,174.3	-241.5	254.8	351.1	0.00	0.00	0.00
3,300.0	8.74	133.46	3,273.1	-251.9	265.8	366.3	0.00	0.00	0.00
3,400.0	8.74	133.46	3,372.0	-262.4	276.9	381.5	0.00	0.00	0.00
3,500.0	8.74	133.46	3,470.8	-272.9	287.9	396.7	0.00	0.00	0.00
3,600.0	8.74	133.46	3,569.6	-283.3	299.0	411.9	0.00	0.00	0.00
3,700.0	8.74	133.46	3,668.5	-293.8	310.0	427.1	0.00	0.00	0.00
3,800.0	8.74	133.46	3,767.3	-304.2	321.0	442.3	0.00	0.00	0.00
3,900.0	8.74	133.46	3,866.2	-314.7	332.1	457.5	0.00	0.00	0.00
4,000.0	8.74	133.46	3,965.0	-325.1	343.1	472.7	0.00	0.00	0.00
4,100.0	8.74	133.46	4,063.8	-335.6	354.1	487.9	0.00	0.00	0.00
4,200.0	8.74	133.46	4,162.7	-346.1	365.2	503.1	0.00	0.00	0.00
4,300.0	8.74	133.46	4,261.5	-356.5	376.2	518.3	0.00	0.00	0.00
4,400.0	8.74	133.46	4,360.3	-367.0	387.2	533.5	0.00	0.00	0.00
4,500.0	8.74	133.46	4,459.2	-377.4	398.3	548.7	0.00	0.00	0.00
4,600.0	8.74	133.46	4,558.0	-387.9	409.3	563.9	0.00	0.00	0.00
4,700.0	8.74	133.46	4,656.9	-398.3	420.3	579.1	0.00	0.00	0.00
4,800.0	8.74	133.46	4,755.7	-408.8	431.4	594.3	0.00	0.00	0.00
4,900.0	8.74	133.46	4,854.5	-419.3	442.4	609.5	0.00	0.00	0.00
5,000.0	8.74	133.46	4,953.4	-429.7	453.4	624.7	0.00	0.00	0.00
5,100.0	8.74	133.46	5,052.2	-440.2	464.5	639.9	0.00	0.00	0.00
5,200.0	8.74	133.46	5,151.0	-450.6	475.5	655.1	0.00	0.00	0.00

NEWFIELD



Newfield Production Company Planning Report

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well Greater Boundary Q-21-8-17
Company:	Newfield Production Company	TVD Reference:	RKB @ 5262.0ft (NDSI #2)
Project:	Monument Butte	MD Reference:	RKB @ 5262.0ft (NDSI #2)
Site:	Greater Boundary Q-21-8-17	North Reference:	True
Well:	Greater Boundary Q-21-8-17	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,300.0	8.74	133.46	5,249.9	-461.1	486.6	670.3	0.00	0.00	0.00
5,400.0	8.74	133.46	5,348.7	-471.5	497.6	685.5	0.00	0.00	0.00
5,500.0	8.74	133.46	5,447.6	-482.0	508.6	700.7	0.00	0.00	0.00
5,600.0	8.74	133.46	5,546.4	-492.5	519.7	715.9	0.00	0.00	0.00
5,700.0	8.74	133.46	5,645.2	-502.9	530.7	731.1	0.00	0.00	0.00
5,800.0	8.74	133.46	5,744.1	-513.4	541.7	746.3	0.00	0.00	0.00
5,900.0	8.74	133.46	5,842.9	-523.8	552.8	761.5	0.00	0.00	0.00
6,000.0	8.74	133.46	5,941.7	-534.3	563.8	776.7	0.00	0.00	0.00
6,100.0	8.74	133.46	6,040.6	-544.8	574.8	792.0	0.00	0.00	0.00
6,200.0	8.74	133.46	6,139.4	-555.2	585.9	807.2	0.00	0.00	0.00
6,300.0	8.74	133.46	6,238.3	-565.7	596.9	822.4	0.00	0.00	0.00
6,400.0	8.74	133.46	6,337.1	-576.1	607.9	837.6	0.00	0.00	0.00
6,500.0	8.74	133.46	6,435.9	-586.6	619.0	852.8	0.00	0.00	0.00
6,600.0	8.74	133.46	6,534.8	-597.0	630.0	868.0	0.00	0.00	0.00
6,676.1	8.74	133.46	6,610.0	-605.0	638.4	879.5	0.00	0.00	0.00

NEWFIELD PRODUCTION COMPANY
GREATER BOUNDARY II FEDERAL Q-21-8-17
AT SURFACE: NW/SW SECTION 21, T8S, R17E
DUCHESNE COUNTY, UTAH

TEN POINT DRILLING PROGRAM

1. **GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

2. **ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

Uinta	0 – 1830'
Green River	1830'
Wasatch	6676'

3. **ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:**

Green River Formation 1830' – 6676' – Oil

Fresh water may be encountered in the Uinta Formation, but would not be expected below about 350'. All water shows and water bearing geologic units shall be reported to the geologic and engineering staff of the Vernal Office prior to running the next string of casing or before plugging orders are requested. All water shows must be reported within one (1) business day after being encountered.

All usable (<10,000 PPM TDS) water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling will be recorded by depth and adequately protected. This information shall be reported to the Vernal Office.

Detected water flows shall be sampled, analyzed, and reported to the geologic & engineering staff of the Vernal Office. The office may request additional water samples for further analysis. Usage of the State of Utah form *Report of Water Encountered* is acceptable, but not required.

The following information is requested for water shows and samples where applicable:

Location & Sampled Interval	Date Sampled
Flow Rate	Temperature
Hardness	pH
Water Classification (State of Utah)	Dissolved Calcium (Ca) (mg/l)
Dissolved Iron (Fe) (ug/l)	Dissolved Sodium (Na) (mg/l)
Dissolved Magnesium (Mg) (mg/l)	Dissolved Carbonate (CO ₃) (mg/l)
Dissolved Bicarbonate (NaHCO ₃) (mg/l)	Dissolved Chloride (Cl) (mg/l)
Dissolved Sulfate (SO ₄) (mg/l)	Dissolved Total Solids (TDS) (mg/l)

4. **PROPOSED CASING PROGRAM**

a. **Casing Design: Greater Boundary II Federal Q-21-8-17**

Size	Interval		Weight	Grade	Coupling	Design Factors		
	Top	Bottom				Burst	Collapse	Tension
Surface casing 8-5/8"	0'	300'	24.0	J-55	STC	2,950 17.53	1,370 14.35	244,000 33.89
Prod casing 5-1/2"	0'	6,676'	15.5	J-55	LTC	4,810 2.26	4,040 1.90	217,000 2.10

Assumptions:

- 1) Surface casing max anticipated surface press (MASP) = Frac gradient – gas gradient
- 2) Prod casing MASP (production mode) = Pore pressure – gas gradient
- 3) All collapse calculations assume fully evacuated casing w/ gas gradient
- 4) All tension calculations assume air weight

Frac gradient at surface casing shoe = 13.0 ppg
Pore pressure at surface casing shoe = 8.33 ppg
Pore pressure at prod casing shoe = 8.33 ppg
Gas gradient = 0.115 psi/ft

All casing shall be new or, if used, inspected and tested. Used casing shall meet or exceed API standards for new casing.

All casing strings shall have a minimum of 1 (one) centralizer on each of the bottom three (3) joints.

b. **Cementing Design: Greater Boundary II Federal Q-21-8-17**

Job	Fill	Description	Sacks	OH Excess*	Weight (ppg)	Yield (ft ³ /sk)
			ft ³			
Surface casing	300'	Class G w/ 2% CaCl	138 161	30%	15.8	1.17
Prod casing Lead	4,676'	Prem Lite II w/ 10% gel + 3% KCl	323 1053	30%	11.0	3.26
Prod casing Tail	2,000'	50/50 Poz w/ 2% gel + 3% KCl	363 451	30%	14.3	1.24

*Actual volume pumped will be 15% over the caliper log

- Compressive strength of lead cement: 1800 psi @ 24 hours, 2250 psi @ 72 hours
- Compressive strength of tail cement: 2500 psi @ 24 hours

Hole Sizes: A 12-1/4" hole will be drilled for the 8-5/8" surface casing. A 7-7/8" hole will be drilled for the 5-1/2" production casing.

The 8-5/8" surface casing shall in all cases be cemented back to surface. In the event that during the primary surface cementing operation the cement does not circulate to surface, or if the cement level should fall back more than 8 feet from surface, then a remedial surface cementing operation shall be performed to insure adequate isolation and stabilization of the surface casing.

5. **MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:**

The operator's minimum specifications for pressure control equipment are as follows:

An 8" Double Ram Hydraulic unit with a closing unit will be utilized. Function test of BOP's will be check daily.

Refer to **Exhibit C** for a diagram of BOP equipment that will be used on this well.

6. **TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

From surface to ± 350 feet will be drilled with an air/mist system. The air rig is equipped with a 6 1/2" blooie line that is straight run and securely anchored. The blooie line is used with a discharge less than 100 ft from the wellbore in order to minimize the well pad size. The blooie line is not equipped with an automatic igniter or continuous pilot light and the compressor is located less than 100 ft from the well bore due to the low possibility of combustion with the air dust mixture. The trailer mounted compressor (capacity of 2000 CFM) has a safety shut-off valve which is located 15 feet from the air rig. A truck with 70 bbls of water is on stand by to be used as kill fluid, if necessary. From about ± 350 feet to TD, a fresh water system will be utilized. Clay inhibition and hole stability will be achieved with a KCl substitute additive. This additive will be identified in the APD and reviewed to determine if the reserve pit shall be lined. This fresh water system will typically contain Total Dissolved Solids (TDS) of less than 3000 PPM. Anticipated mud weight is 8.4 lbs/gal. If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite

No chromate additives will be used in the mud system on Federal and/or Indian lands without prior BLM approval to ensure adequate protection of fresh aquifers.

No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of this well.

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

Newfield Production will **visually** monitor pit levels and flow from the well during drilling operations.

7. **AUXILIARY SAFETY EQUIPMENT TO BE USED:**

Auxiliary safety equipment will be a Kelly Cock, bit float, and a TIW valve with drill pipe threads.

8. **TESTING, LOGGING AND CORING PROGRAMS:**

The logging program will consist of a Dual Induction, Gamma Ray and Caliper log from TD to base of surface casing @ 300' +/-, and a Compensated Neutron-Formation Density Log from TD to 3500' +/- . A cement bond log will be run from PBTD to cement top. No drill stem testing or coring is planned for this well.

9. **ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

No abnormal temperatures or pressures are anticipated. No hydrogen sulfide has been encountered or is known to exist from previous drilling in the area at this depth. Maximum anticipated

bottomhole pressure will approximately equal total depth in feet multiplied by a 0.433 psi/foot gradient.

10. **ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:**

It is anticipated that the drilling operations will commence the first quarter of 2010, and take approximately seven (7) days from spud to rig release.

2-M SYSTEM

Blowout Prevention Equipment Systems

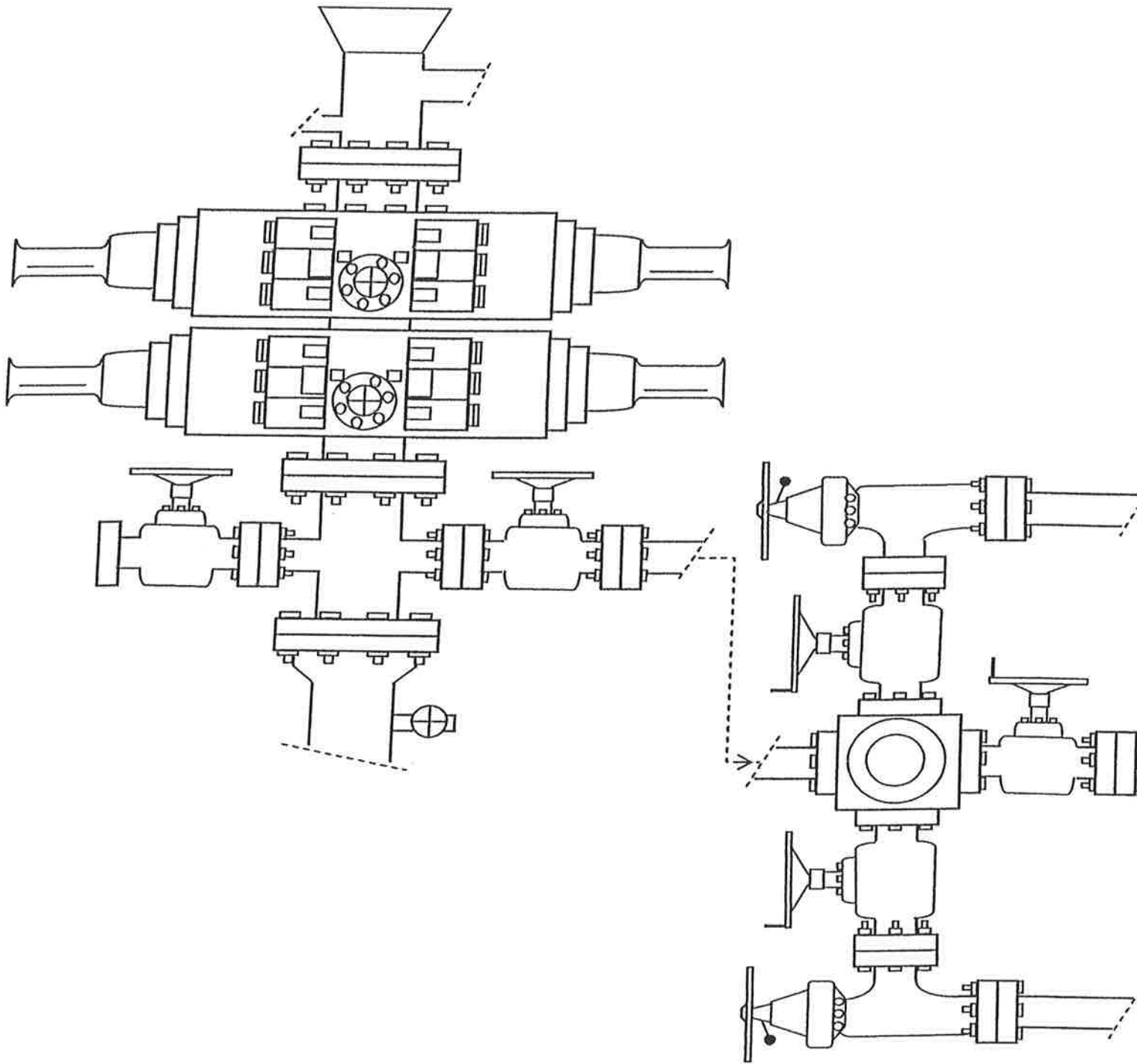
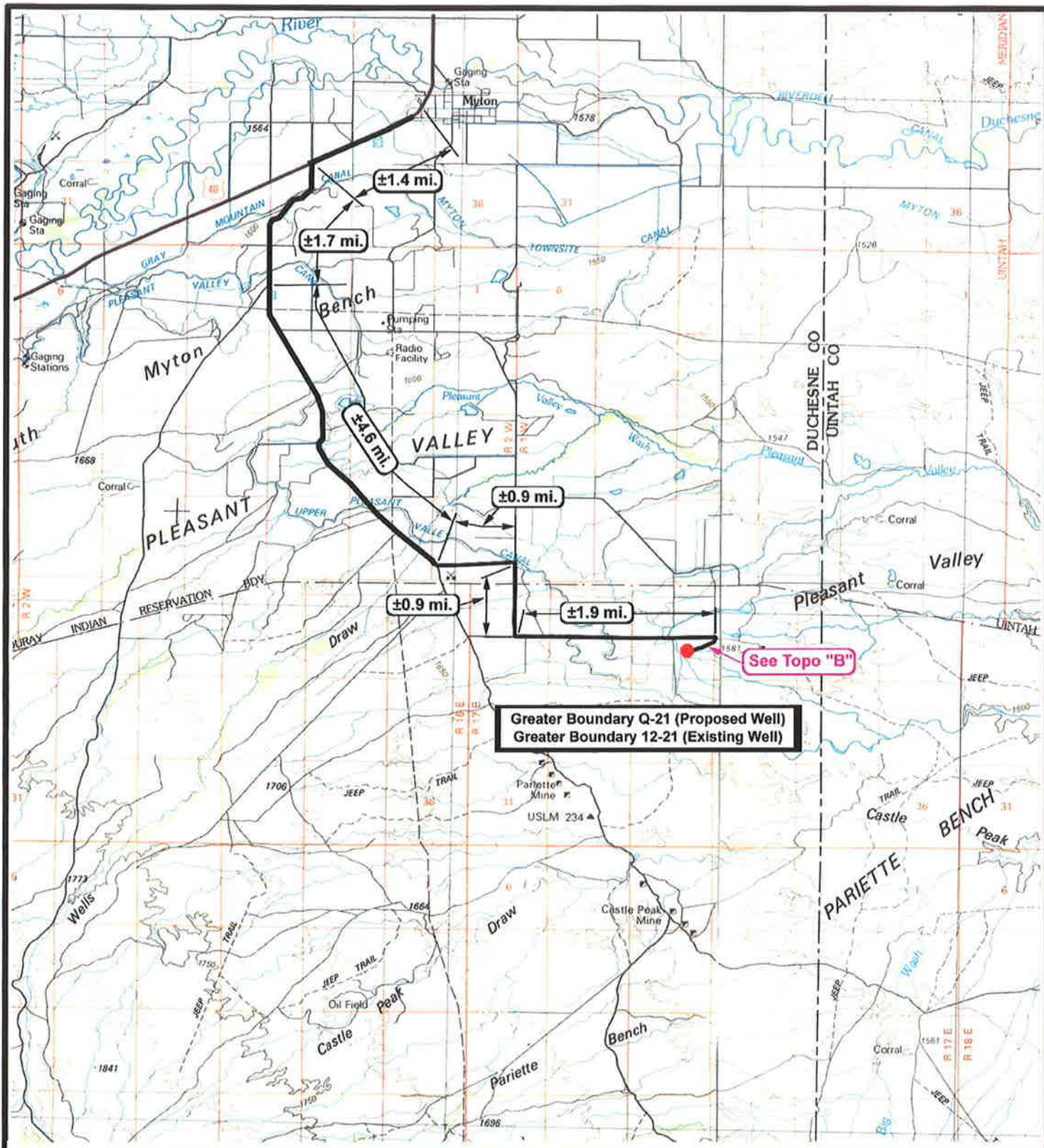



EXHIBIT C





NEWFIELD
Exploration Company

Greater Boundary Q-21-8-17 (Proposed Well)
Greater Boundary 12-21-8-17 (Existing Well)
 Pad Location NWSW SEC. 21, T8S, R17E, S.L.B.&M.



Tri-State
Land Surveying Inc.
(435) 781-2501
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1 = 100,000
 DRAWN BY: mw
 DATE: 12-29-2008

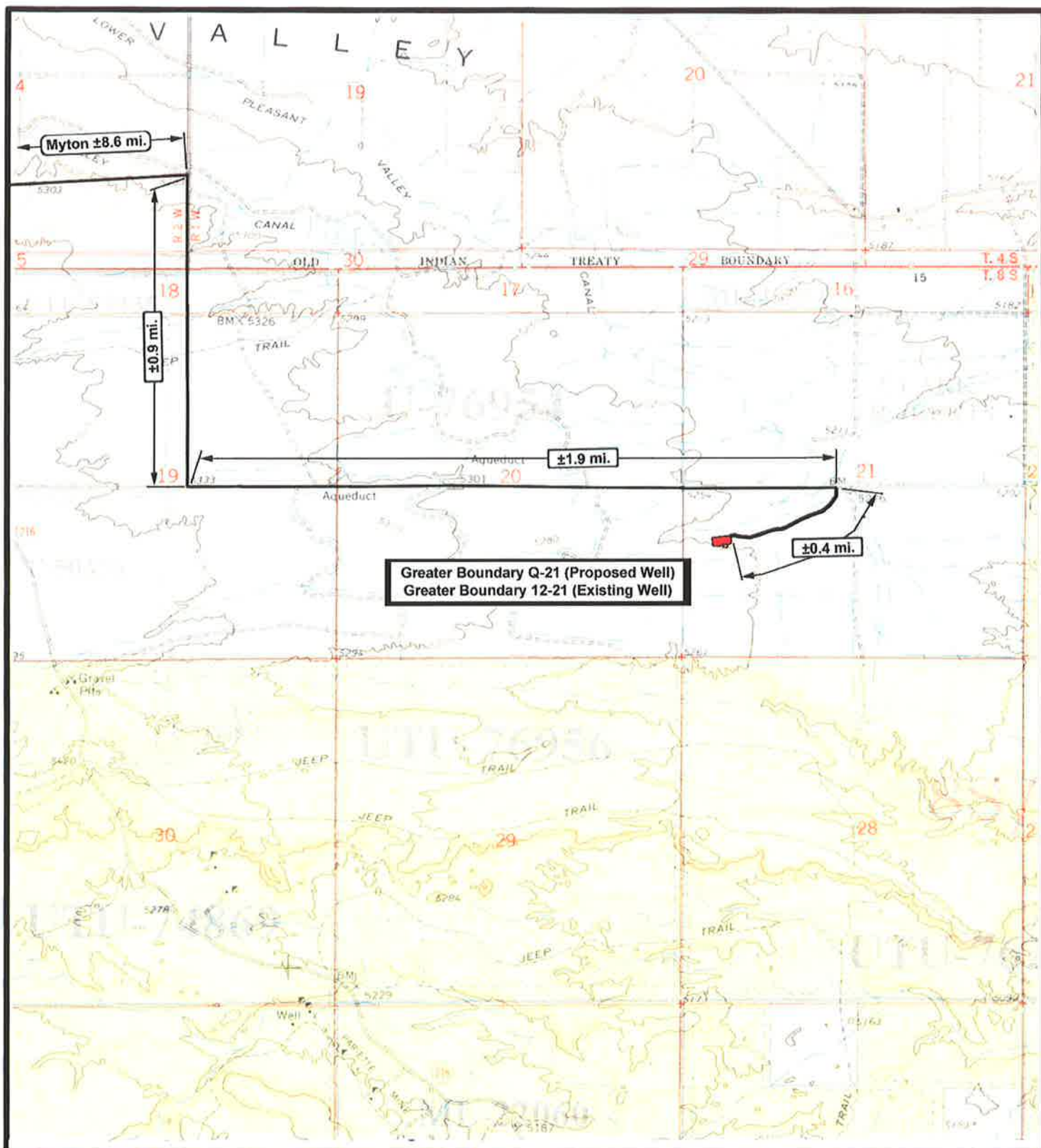
Legend




Existing Road

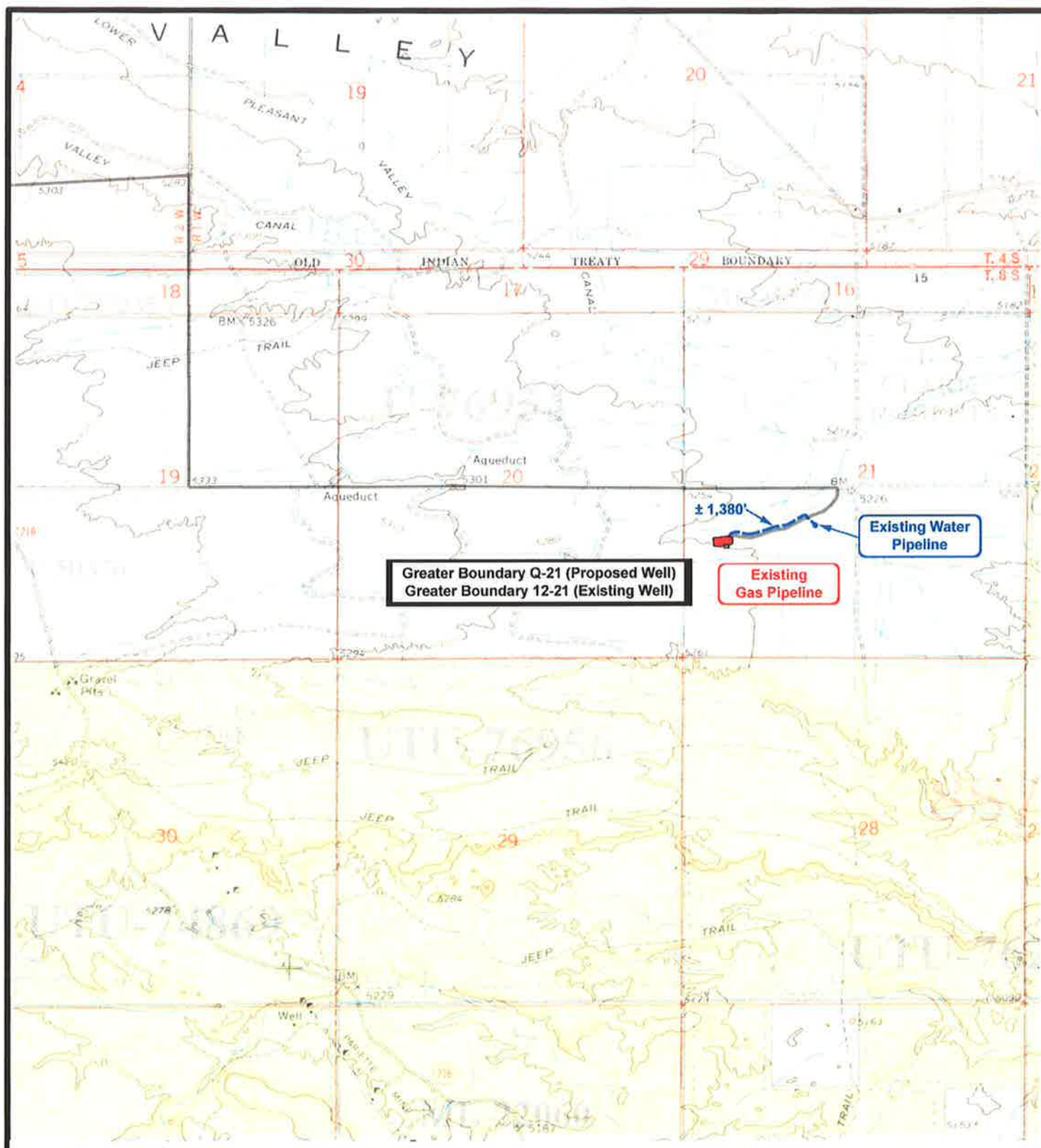
Proposed Access

TOPOGRAPHIC MAP

"A"



 <p>NEWFIELD Exploration Company</p>		 <p>Tri-State Land Surveying Inc. (435) 781-2501 180 North Vernal Ave. Vernal, Utah 84078</p> <p>SCALE: 1" = 2,000' DRAWN BY: mw DATE: 12-30-2008</p>	<p>Legend</p> <p>Existing Road Proposed Access</p> <p>TOPOGRAPHIC MAP</p> <p>"B"</p>
<p>Greater Boundary Q-21-8-17 (Proposed Well) Greater Boundary 12-21-8-17 (Existing Well) Pad Location NWSW SEC. 21, T8S, R17E, S.L.B.&M.</p>			









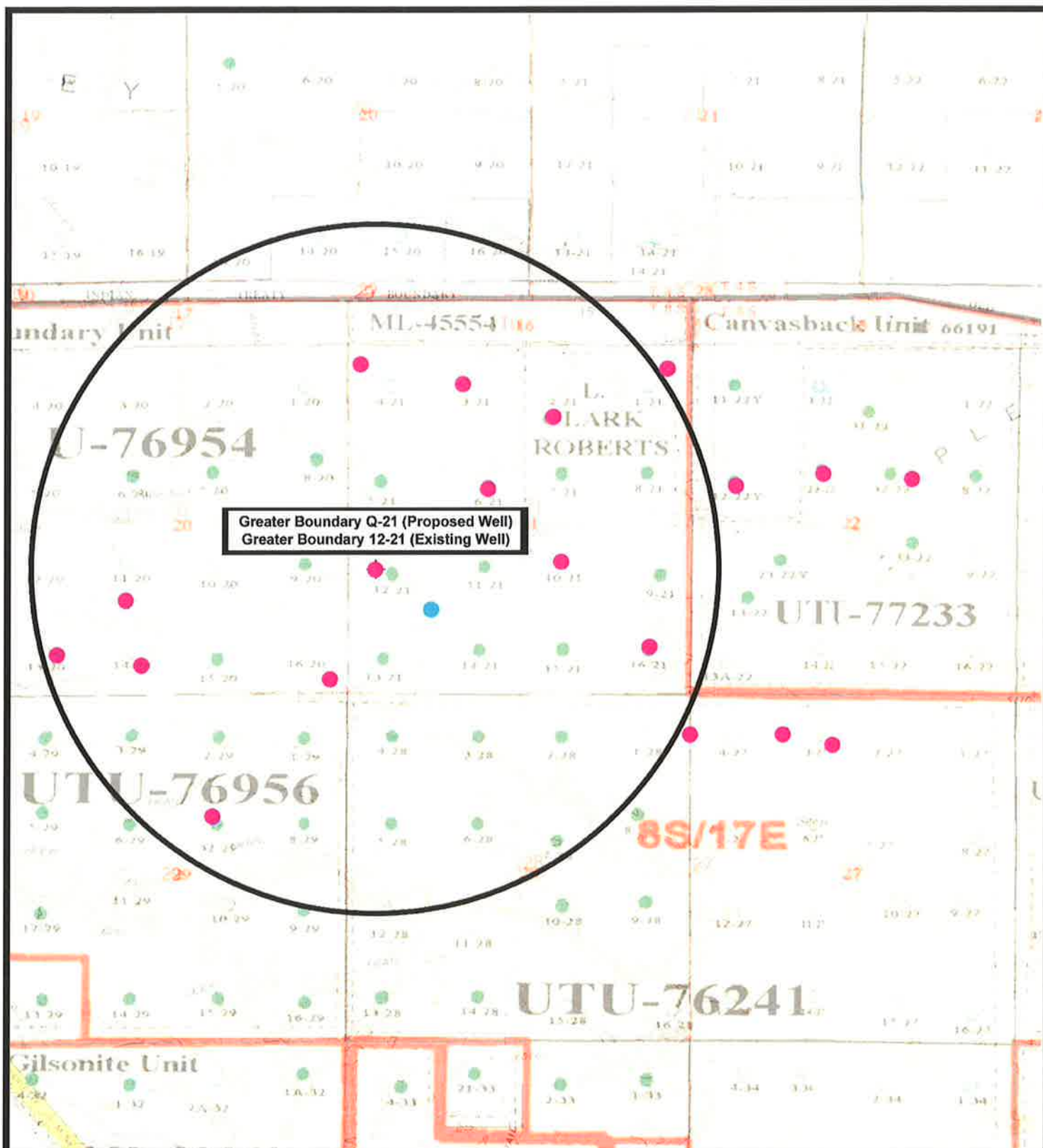
Greater Boundary Q-21 (Proposed Well)
Greater Boundary 12-21 (Existing Well)




Existing Gas Pipeline

Existing Water Pipeline

± 1,380'

 <p>NEWFIELD Exploration Company</p>		 <p>Tri-State Land Surveying Inc. (435) 781-2501 180 North Vernal Ave. Vernal, Utah 84078</p>	<p>Legend</p> <ul style="list-style-type: none">  Roads  Proposed Gas Line  Proposed Water Line
<p>Greater Boundary Q-21-8-17 (Proposed Well) Greater Boundary 12-21-8-17 (Existing Well) Pad Location NWSW SEC. 21, T8S, R17E, S.L.B.&M.</p>		<p>SCALE: 1" = 2,000' DRAWN BY: mw DATE: 12-30-2008</p>	<p>TOPOGRAPHIC MAP</p> <p>"C"</p>



 <p>NEWFIELD Exploration Company</p>		 <p>Tri-State Land Surveying Inc. (435) 781-2501 180 North Vernal Ave. Vernal, Utah 84078</p>	<p>Legend</p>
<p>Greater Boundary Q-21-8-17 (Proposed Well) Greater Boundary 12-21-8-17 (Existing Well) Pad Location NWSW SEC. 21, T8S, R17E, S.L.B.&M.</p>		<p>SCALE: 1" = 2,000' DRAWN BY: mw DATE: 12-30-2008</p>	<p> ● Pad Location ● Bottom Hole Location One-Mile Radius </p> <p style="text-align: center; border: 1px solid black; padding: 5px; font-weight: bold;">Exhibit "B"</p>

**NEWFIELD PRODUCTION COMPANY
GREATER BOUNDARY II FEDERAL Q-21-8-17
AT SURFACE: NW/SW SECTION 21, T8S, R17E
DUCHESNE COUNTY, UTAH**

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. EXISTING ROADS

See attached Topographic Map "A"

To reach Newfield Production Company well location site Greater Boundary II Federal Q-21-8-17 located in the NW 1/4 SW 1/4 Section 21, T8S, R17E, Duchesne County, Utah:

Proceed in a southwesterly direction out of Myton, Utah along Highway 40 approximately 1.4 ± miles to the junction of this highway and Utah State Highway 53; proceed southeasterly approximately 6.3 miles ± to its junction with an existing road to the east; proceed easterly approximately 0.9 miles ± to its junction with an existing road to the south; proceed southerly approximately 0.9 miles ± to its junction with an existing road to the east; proceed easterly approximately 1.9 miles ± to its junction with an existing road to the southwest; proceed southwesterly approximately 0.4 miles ± to the existing 12-21-8-17 well location.

The aforementioned dirt oil field service roads and other roads in the vicinity are constructed out of existing native materials that are prevalent to the existing area they are located in and range from clays to a sandy-clay shale material.

The roads for access during the drilling, completion and production phase will be maintained at the standards required by the State of Utah, or other controlling agencies. This maintenance will consist of some minor grader work for smoothing road surfaces and for snow removal. Any necessary fill material for repair will be purchase and hauled from private sources.

2. PLANNED ACCESS ROAD

There is no proposed access road for this location. The proposed well will be drilled off of the existing 12-21-8-17 well pad. See attached **Topographic Map "B"**.

There will be **no** culverts required along this access road. There will be barrow ditches and turnouts as needed along this road.

There are no fences encountered along this proposed road. There will be no new gates or cattle guards required.

All construction material for this access road will be borrowed material accumulated during construction of the access road.

3. LOCATION OF EXISTING WELLS

Refer to Exhibit "B".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

There are no existing facilities that will be used by this well.

It is anticipated that this well will be a producing oil well.

Upon construction of a tank battery, the well pad will be surrounded by a dike of sufficient capacity to contain at minimum 110% of the largest tank volume within the facility battery.

Tank batteries will be built to State specifications.

All permanent surface equipment will be painted Carlsbad. All facilities will be painted within six months of installation.

5. **LOCATION AND TYPE OF WATER SUPPLY**

Newfield Production will transport water by truck from nearest water source as determined by a Newfield representative for the purpose of drilling the above mentioned well. The available water sources are as follows:

Johnson Water District
Water Right : 43-7478

Neil Moon Pond
Water Right: 43-11787

Maurice Harvey Pond
Water Right: 47-1358

Newfield Collector Well
Water Right: 41-3530 (A30414DV, contracted with the Duchesne County Conservancy District).

Please refer to the Monument Butte Field SOP. See Exhibit "A".

6. **SOURCE OF CONSTRUCTION MATERIALS**

All construction material for this location shall be borrowed material accumulated during construction of the location site and access road.

A mineral material application is not required for this location.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

A small reserve pit (90' x 40' x 8' deep, or less) will be constructed from native soil and clay materials. The reserve pit will receive the processed drill cutting (wet sand, shale & rock) removed from the wellbore. Any drilling fluids, which do accumulate in the pit as a result of shale-shaker carryover, cleaning of the sand trap, etc., will be promptly reclaimed. All drilling fluids will be fresh water based, typically containing Total Dissolved Solids of less than 3000 PPM. No potassium chloride, chromates, trash, debris, nor any other substance deemed hazardous will be placed in this pit. Therefore, it is proposed that no synthetic liner be required in the reserve pit. However, if upon constructing the pit there is insufficient fine clay and silt present, a liner will be used for the purpose of reducing water loss through percolation.

Newfield requests approval that a flare pit not be constructed or utilized on this location.

A portable toilet will be provided for human waste.

A trash basket will be provided for garbage (trash) and hauled away to an approved disposal site at the completion of the drilling activities.

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte,

Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E), State of Utah approved surface disposal facilities, or Federally approved surface disposal facilities.

8. ANCILLARY FACILITIES

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. WELL SITE LAYOUT

See attached Location Layout Sheet.

Fencing Requirements

All pits will be fenced according to the following minimum standards:

- a) A 39-inch net wire shall be used with at least one strand of barbed wire on top of the net.
- b) The net wire shall be no more than two (2) inches above the ground. The barbed wire shall be three (3) inches above the net wire. Total height of the fence shall be at least forty-two (42) inches.
- c) Corner posts shall be centered and/or braced in such a manner to keep tight at all times
- d) Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than sixteen (16) feet.
- e) All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The reserve pit fencing will be on three (3) sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

Existing fences to be crossed by the access road will be braced and tied off before cutting so as to prevent slacking in the wire. The opening shall be closed temporarily as necessary during construction to prevent the escape of livestock, and upon completion of construction the fence shall be repaired to BLM specifications.

10. PLANS FOR RESTORATION OF SURFACE:

- a) Producing Location

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, material, trash and junk not required for production.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximated natural contours. Weather permitting, the reserve pit will be reclaimed within one hundred twenty (120) days from the date of well completion. Before any dirt work takes place, the reserve pit must have all fluids and hydrocarbons removed.

- b) Dry Hole Abandoned Location

At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and the State of Utah will attach the appropriate surface rehabilitation conditions of approval.

11. **SURFACE OWNERSHIP** – John E. Dyer. See attached Surface Use Agreement.

12. **OTHER ADDITIONAL INFORMATION**

Newfield Production Company requests 1380' of disturbed area be granted to allow for construction of the proposed water lines. It is proposed that the disturbed area will temporarily be 50' wide to allow for construction of a buried 3" steel water injection line and a buried 3" poly water return line and 30' wide upon completion of the proposed water lines. Both proposed lines will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C."** In the event that the proposed well is converted to a water injection well, a separate injection permit will be applied for through the proper agencies.

- a) Newfield Production Company is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, Newfield is to immediately stop work that might further disturb such materials and contact the Authorized Officer.
- b) Newfield Production will control noxious weeds along rights-of-way for roads, pipelines, well sites or other applicable facilities. On State administered land it is required that a Pesticide Use Proposal shall be submitted and given approval prior to the application of herbicides or other possible hazardous chemicals.
- c) Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on State Lands after the conclusion of drilling operations or at any other time without State authorization. However, if State authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities.

The Archaeological and Paleontological Report Waiver is attached.

Additional Surface Stipulations

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws and regulations, Onshore Oil and Gas Orders, the approved plan of operations and any applicable Notice to Lessees. A copy of these conditions will be furnished to the field representative to ensure compliance.

Hazardous Material Declaration

Newfield Production Company guarantees that during the drilling and completion of the Greater Boundary II Federal Q-21-8-17, Newfield will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Newfield also guarantees that during the drilling and completion of the Greater Boundary II Federal Q-21-8-17, Newfield will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

A complete copy of the approved APD, if applicable, shall be on location during the construction of the location and drilling activities.

Newfield Production Company or a contractor employed by Newfield Production shall contact the State office at (801) 722-3417, 48 hours prior to construction activities.

The State office shall be notified upon site completion prior to moving on the drilling rig.

13. **LESSEE'S OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION:**

Representative


Name: Tim Eaton
Address: Newfield Production Company
Route 3, Box 3630
Myton, UT 84052
Telephone: (435) 646-3721

Certification

Please be advised that Newfield Production Company is considered to be the operator of well #Q-21-8-17, NW/SW Section 21, T8S, R17E, Duchesne County, Utah and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by, Federal Bond #WYB000493.

I hereby certify that the proposed drill site and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of the 18 U.S.C. 1001 for the filing of a false statement.

10/27/09
Date


Mandie Crozier
Regulatory Specialist
Newfield Production Company

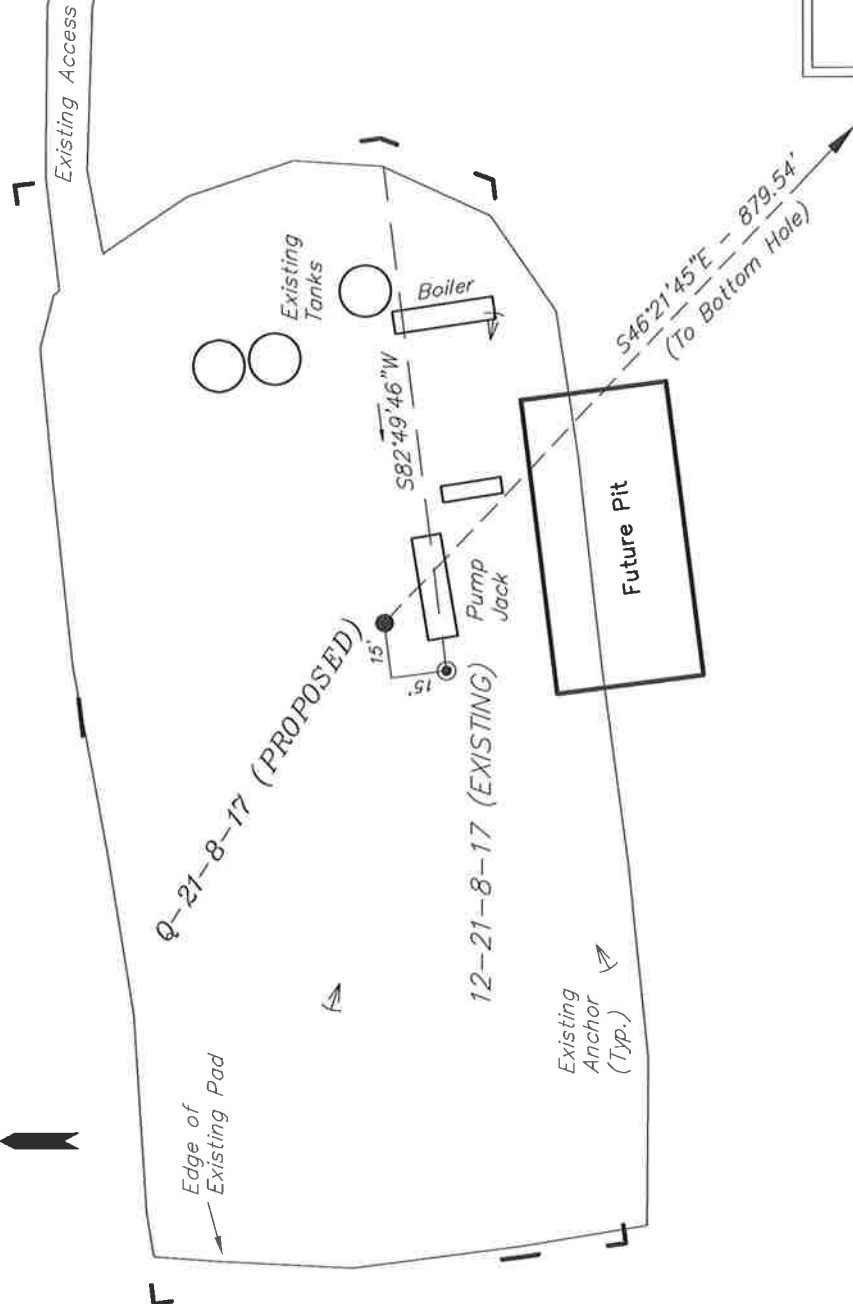
NEWFIELD PRODUCTION COMPANY

WELL PAD INTERFERENCE PLAT

GREATER BOUNDARY Q-21-8-17 (Proposed Well)

GREATER BOUNDARY 12-21-8-17 (Existing Well)

Pad Location: NWSW Section 21, T8S, R17E, S.L.B.&M.



TOP HOLE FOOTAGES
Q-21-8-17 (PROPOSED)
1810' FSL & 661' FEL

BOTTOM HOLE FOOTAGES
Q-21-8-17 (PROPOSED)
1205' FSL & 1300' FEL

LATITUDE & LONGITUDE

Surface position of Wells (NAD 83)

WELL	LATITUDE	LONGITUDE
Q-21-8-17	40° 06' 04.17"	110° 01' 06.70"
12-21-8-17	40° 06' 40.01"	110° 01' 06.86"

Note:
Bearings are based on
GLO Information.

RELATIVE COORDINATES

From top hole to bottom hole

WELL	NORTH	EAST
Q-21-8-17	-607'	636'

SURVEYED BY: C.M.	DATE SURVEYED: 12-03-08
DRAWN BY: F.T.M.	DATE DRAWN: 12-16-08
SCALE: 1" = 50'	REVISED:

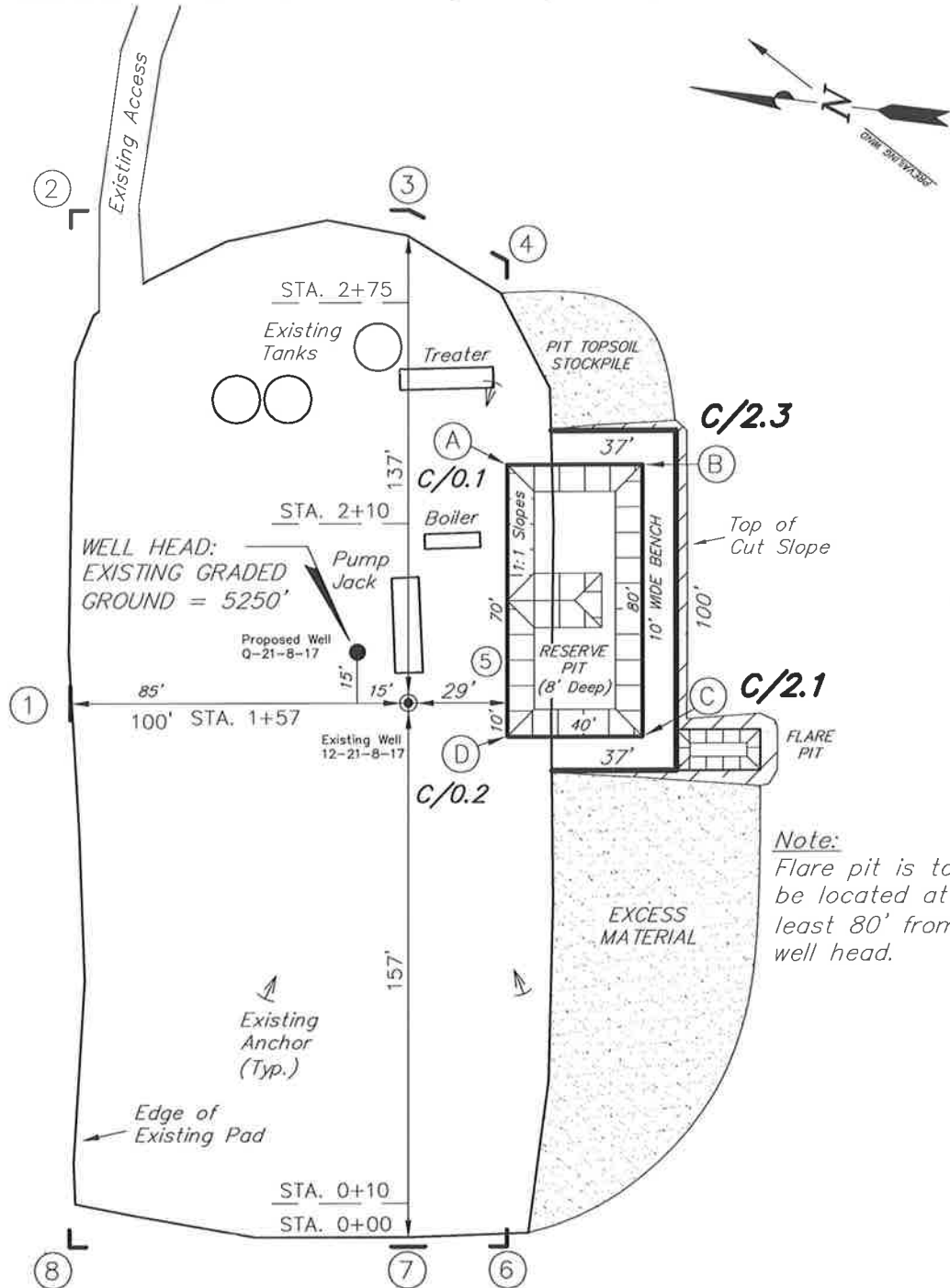
Tri State
Land Surveying, Inc.
180 NORTH VERNAL AVE.
VERNAL, UTAH 84078
(435) 781-2501

NEWFIELD PRODUCTION COMPANY

GREATER BOUNDARY Q-21-8-17 (Proposed Well)

GREATER BOUNDARY 12-21-8-17 (Existing Well)

Pad Location: NWSW Section 21, T8S, R17E, S.L.B.&M.



Note:
Flare pit is to be located at least 80' from well head.

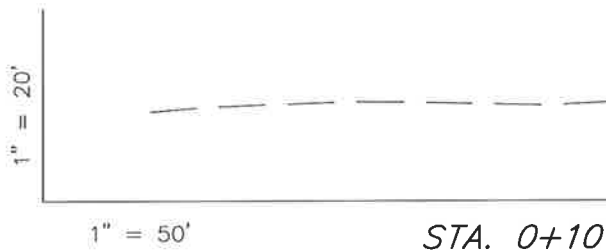
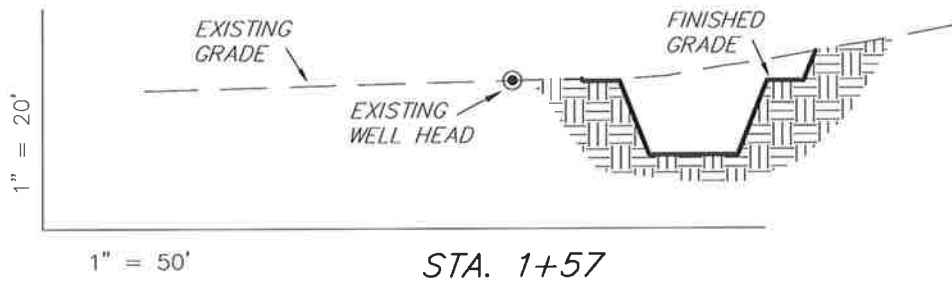
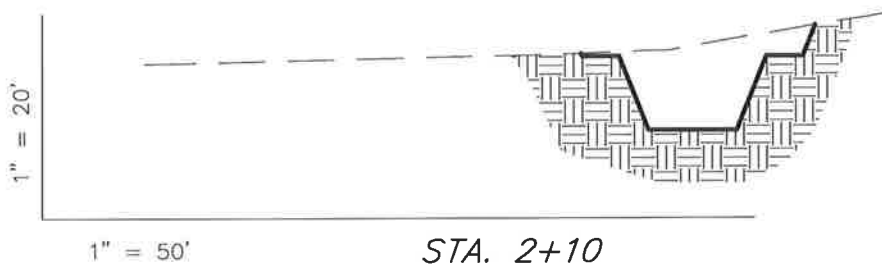
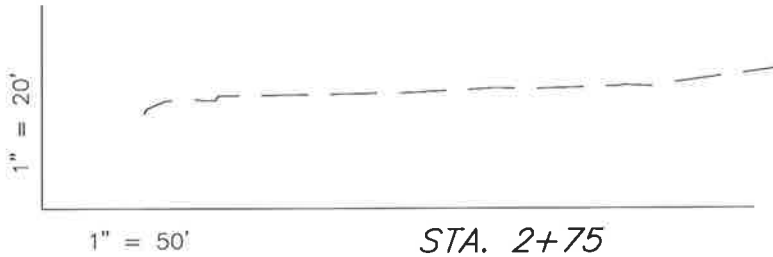
SURVEYED BY: A.C.	DATE SURVEYED: 12-03-08
DRAWN BY: F.T.M.	DATE DRAWN: 12-16-08
SCALE: 1" = 50'	REVISED:

Tri State
Land Surveying, Inc.
(435) 781-2501
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

NEWFIELD PRODUCTION COMPANY

CROSS SECTIONS

GREATER BOUNDARY Q-21-8-17 (Proposed Well)
GREATER BOUNDARY 12-21-8-17 (Existing Well)



NOTE:
UNLESS OTHERWISE NOTED
CUT SLOPES ARE AT 1:1
FILL SLOPES ARE AT 1.5:1

ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	360	0	Topsoil is not included in Pad Cut	360
PIT	640	0		640
TOTALS	1,000	0	1,030	1,000

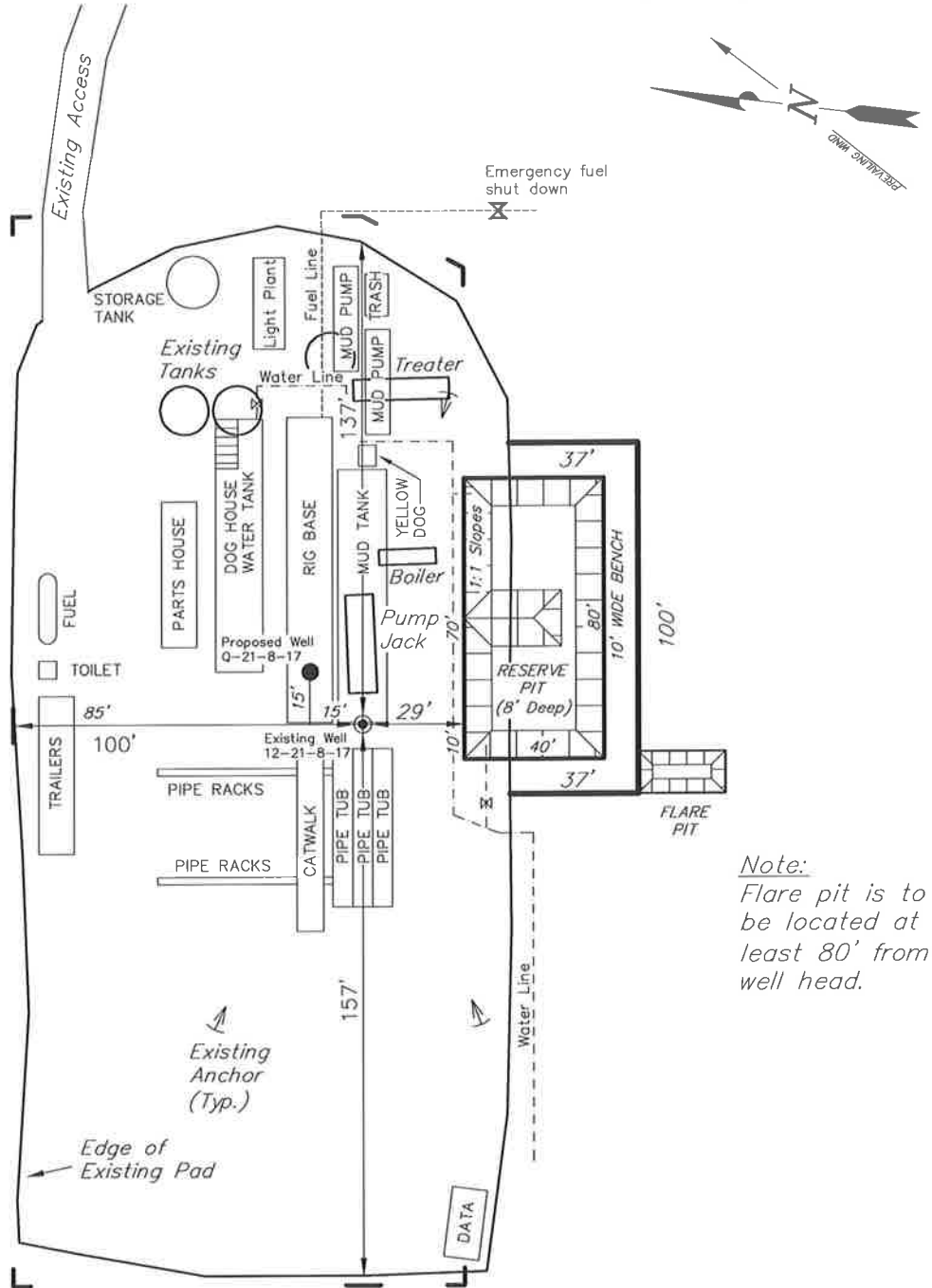
SURVEYED BY: A.C. DATE SURVEYED: 12-03-08
DRAWN BY: F.T.M. DATE DRAWN: 12-16-08
SCALE: 1" = 50' REVISED:

Tri State
Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078
(435) 781-2501

NEWFIELD PRODUCTION COMPANY

TYPICAL RIG LAYOUT

GREATER BOUNDARY Q-21-8-17 (Proposed Well)
GREATER BOUNDARY 12-21-8-17 (Existing Well)



SURVEYED BY: A.C.	DATE SURVEYED: 12-03-08
DRAWN BY: F.T.M.	DATE DRAWN: 12-16-08
SCALE: 1" = 50'	REVISED:

Tri State
Land Surveying, Inc.
(435) 781-2501
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

Newfield Production Company Proposed Site Facility Diagram

Greater Boundary II Federal Q-21-8-17

From the 12-21-8-17 Location

NW/SW Sec. 21 T8S, R17E

Duchesne County, Utah

UTU-76954

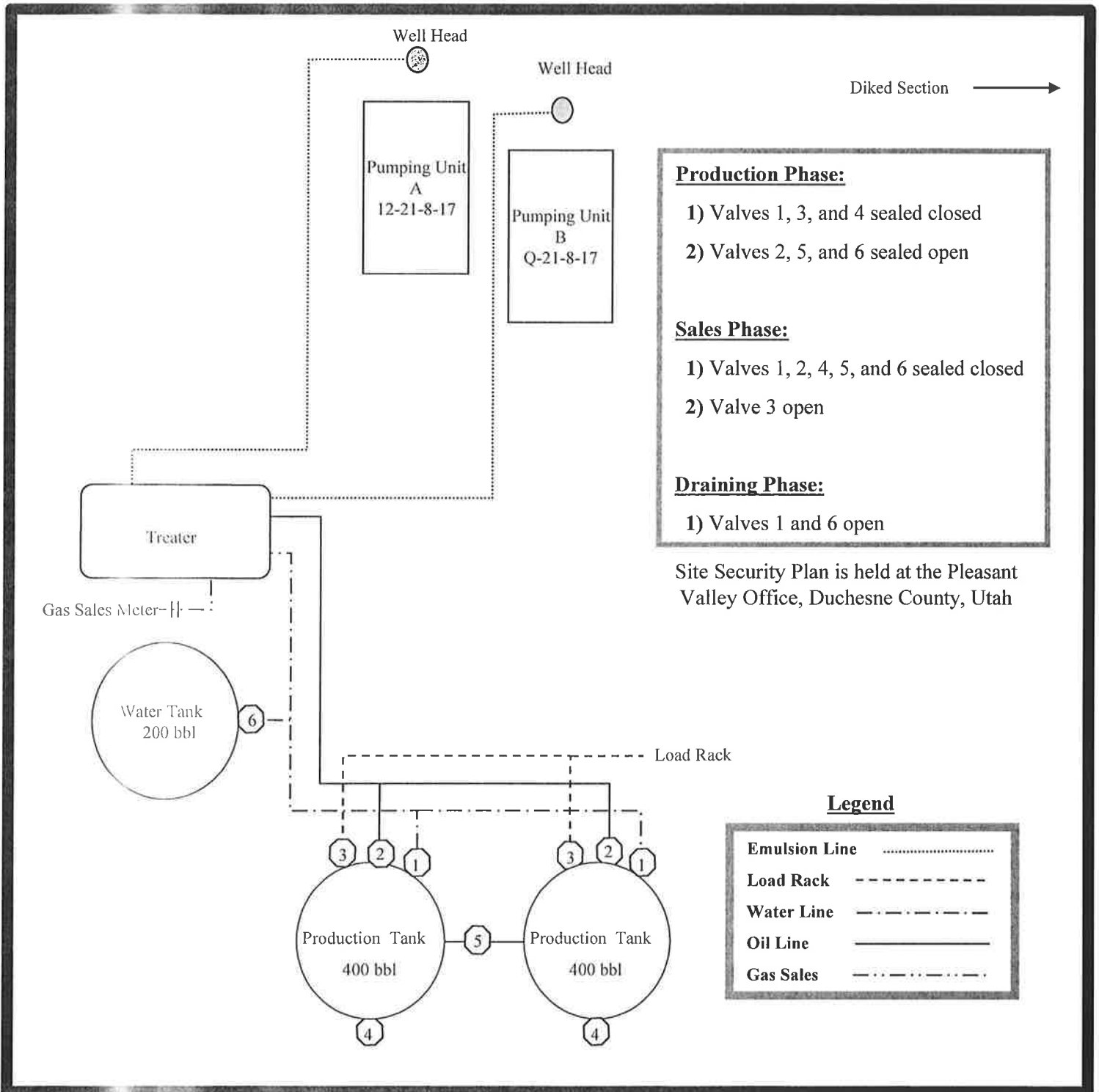


EXHIBIT D


Township 8 South, Range 17 East, S.L.M.
 Section 20: NE/4SE/4
 Section 21: SW/4
 Section 28: N/2NW

Duchesne County, Utah

ARCHAEOLOGICAL & PALEOTOLOGICAL REPORT WAIVER

For the above referenced locations; Boundary Farms, LLC, the Private Surface Owner.
 (Having a Surface Owner Agreement with Newfield Production Company)

John E. Dyer, representing this entity does agree to waive the request from the State of Utah and Bureau of Land Management for an Archaeological/Cultural and Paleotological Resource Survey for any wells covered by the Surface Use Agreement dated 6/1/2000 between the above said private land owner and Newfield Production. This waiver hereby releases Newfield Production Company from this request.


 John E. Dyer 6/17/2009
 Private Surface Owner Date



 Brad Mecham 6-22-09
 Newfield Production Company Date

EXHIBIT D

Township 8 South, Range 17 East, S.L.M.

Section 20: NE/4SE/4

Section 21: SW/4


Section 28: N/2NW


Duchesne County, Utah

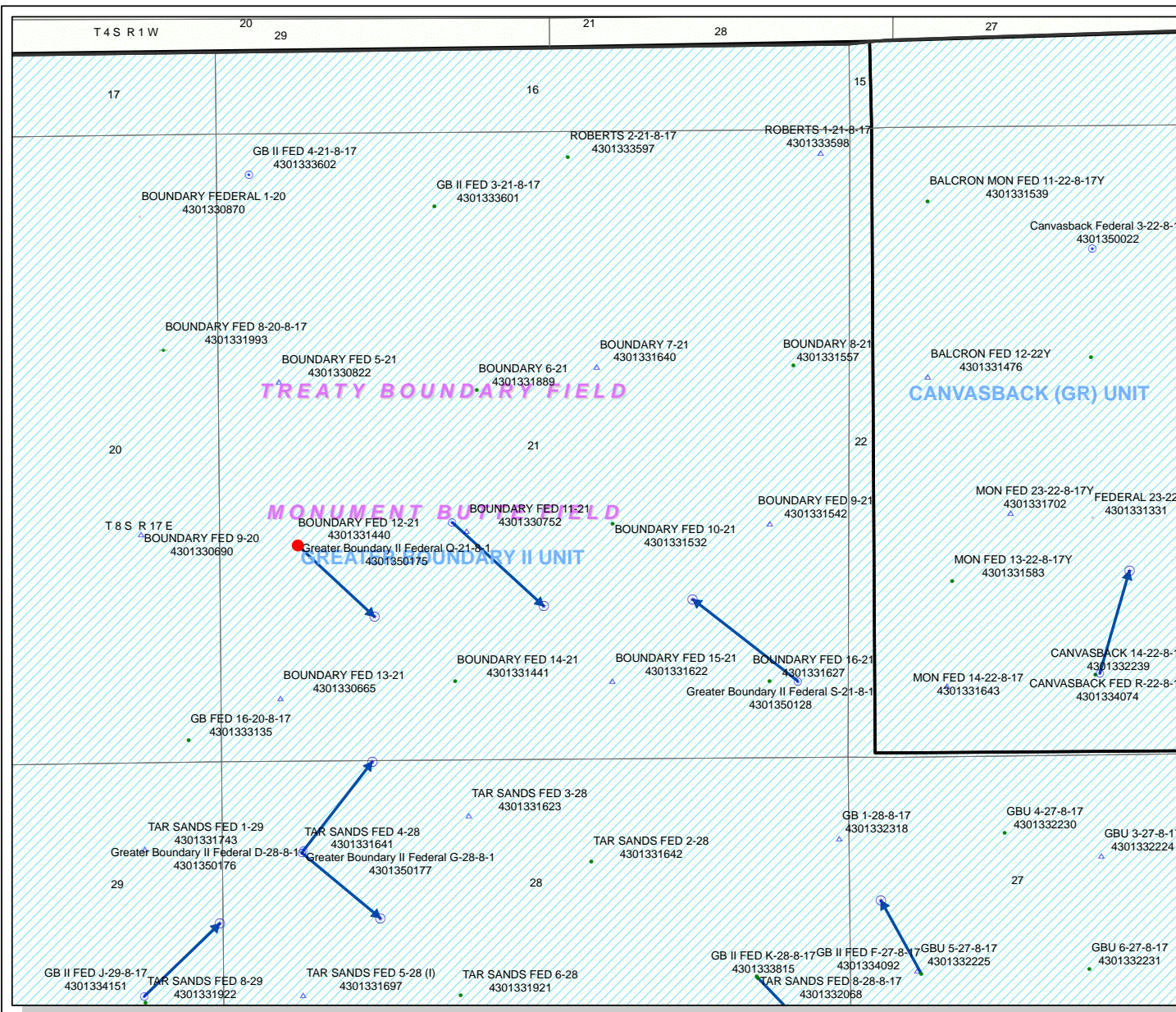
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John E. Dyer 6/17/2009
Private Surface Owner Date


Brad Mecham 6-22-09
Newfield Production Company Date



API Number: 4301350175
Well Name: Greater Boundary II Federal Q-21-8-1
Township 08.0 S Range 17.0 E Section 21
Meridian: SLBM
 Operator: NEWFIELD PRODUCTION COMPAN

Map Prepared:
 Map Produced by Diana Mason

- ✂ GAS INJECTION
 - GAS STORAGE
 - ✕ LOCATION ABANDONED
 - ⊕ NEW LOCATION
 - ◇ PLUGGED & ABANDONED
 - ★ PRODUCING GAS
 - PRODUCING OIL
 - ✂ SHUT-IN GAS
 - ✂ SHUT-IN OIL
 - ✕ TEMP. ABANDONED
 - TEST WELL
 - △ WATER INJECTION
 - ⬆ WATER SUPPLY
 - ⬆ WATER DISPOSAL
- Units
 - Spacing Index
 - ACTIVE FIELD
 - COMBINED FIELD



688.00 Feet

1:10,262

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160
(UT-922)

October 30, 2009

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2009 Plan of Development Greater Boundary II Unit,
Duchesne County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following well is planned for calendar year 2009 within the Greater Boundary II Unit, Duchesne County, Utah.

API #	WELL NAME	LOCATION
-------	-----------	----------

(Proposed PZ GREEN RIVER)

43-013-50175	Greater Boundary II Q-21-8-17 Sec 21 T08S R17E 1810 FSL 0661 FWL	BHL Sec 21 T08S R17E 1205 FSL 1300 FWL
--------------	------------------------------------------------------------------	----------------------------------------

43-013-50176	Greater Boundary II D-28-8-17 Sec 28 T08S R17E 0752 FNL 0682 FWL	BHL Sec 28 T08S R17E 0010 FNL 1265 FWL
--------------	------------------------------------------------------------------	----------------------------------------

43-013-50177	Greater Boundary II G-28-8-17 Sec 28 T08S R17E 0768 FNL 0668 FWL	BHL Sec 28 T08S R17E 1325 FNL 1323 FWL
--------------	------------------------------------------------------------------	----------------------------------------

We have no objections to permitting the well so long as the unit operator receives an exception to the locating and siting requirements of the State of Utah (R649-3-2).

/s/ Michael L. Coulthard

bcc: File – Greater Boundary Unit II
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:10-30-09



December 2, 2009

State of Utah, Division of Oil, Gas and Mining
ATTN: Diana Mason
P.O. Box 145801
Salt Lake City, UT 84114-5801

2145

RE: Directional Drilling
Greater Boundary II Federal Q-21-8-17
Greater Monument Butte (Green River) Unit
UTU-76954
Surface Hole: T8S-R17E Section 21: NWSW
1810' FSL 661' FWL

At Target: T8S-R17E Section 21: SWSW
1205' FSL 1300' FWL

Duchesne County, Utah

Dear Ms. Mason;

Pursuant to the filing by Newfield Production Company (NPC) of an Application for Permit to Drill the above referenced well dated 10/27/09, a copy of which is attached, and in accordance with Oil and Gas Conservation Rule R649-3-11, NPC hereby submits this letter as notice of our intention to directionally drill this well.

The surface hole and target locations of this well are both within the boundaries of the Greater Monument Butte Unit (UTU-87538X), of which Newfield certifies that it is the operator. Further, Newfield Certifies that all lands within 460 feet of the entire directional well bore are within the Greater Monument Butte Unit.

NPC is permitting this well as a directional well in order to mitigate surface disturbance by utilizing pre-existing roads and pipelines.

NPC hereby requests our application for permit to drill be granted pursuant to R649-3-11. If you have any questions or require further information, please contact the undersigned at 303-383-4197 or by email at sgillespie@newfield.com. Your consideration in this matter is greatly appreciated.

Sincerely,
Newfield Production Company

A handwritten signature in blue ink that reads "Shane Gillespie".

Shane Gillespie
Land Associate

RECEIVED

DEC 07 2009

DIV. OF OIL, GAS & MINING

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator	NEWFIELD PRODUCTION COMPANY				
Well Name	Greater Boundary II Federal Q-21-8-17				
API Number	43013501750000	APD No	2145	Field/Unit	MONUMENT BUTTE
Location: 1/4,1/4	NWSW	Sec	21	Tw	8.0S Rng 17.0E 1810 FSL 661 FWL
GPS Coord (UTM)	Surface Owner John Dyer/Boundary Farms LLC				

Participants

Floyd Bartlett (DOGM), Tim Eaton, (Newfield Production Co.), Cory Miller and Cameron Stewart (Tri-State Land Surveying).

Regional/Local Setting & Topography

The proposed Greater Boundary II Q-21-8-17 oil well is a directional well to be drilled from the existing pad of the Greater Boundary II 12-21-8-17 producing oil well. No changes to the previously disturbed area are planned. The reserve pit will be re-dug in approximately the original location on the southeast side of the pad. It however will be moved north 15 feet within the previous disturbance to provide the 29 feet needed between well bore and the reserve pit. The well is on a 20-acre spacing.

A field review of the existing pad showed no concerns as it now exists and should be a suitable for drilling and operating the proposed additional well.

Mr. John Dyer owns the surface. The United States Government owns the minerals.

Surface Use Plan

Current Surface Use

Existing Well Pad

New Road Miles	Well Pad	Src Const Material	Surface Formation
	Width Length		

Ancillary Facilities

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands

Flora / Fauna

Existing well pad.

Soil Type and Characteristics

Erosion Issues

Sedimentation Issues

Site Stability Issues

Drainage Diversion Required?

Berm Required?

Erosion Sedimentation Control Required?

Paleo Survey Run?

Paleo Potential Observed?

Cultural Survey Run?

Cultural Resources?

Reserve Pit

Site-Specific Factors

Site Ranking

Distance to Groundwater (feet)	75 to 100	10	
Distance to Surface Water (feet)	>1000	0	
Dist. Nearest Municipal Well (ft)	>5280	0	
Distance to Other Wells (feet)		20	
Native Soil Type	Mod permeability	10	
Fluid Type	Fresh Water	5	
Drill Cuttings	Normal Rock	0	
Annual Precipitation (inches)		0	
Affected Populations			
Presence Nearby Utility Conduits	Not Present	0	
	Final Score	45	1 Sensitivity Level

Characteristics / Requirements

The reserve pit will be re-dug in approximately the original location on the southeast side of the pad. It however will be moved north 15 feet within the previous disturbance to provide the 29 feet needed between well bore and the reserve pit. Its dimensions are 80' x 40' x 8' deep. A 16-mil liner with an appropriate sub-liner is required.

Closed Loop Mud Required? N Liner Required? Y Liner Thickness 16 Pit Underlayment Required? Y

Other Observations / Comments

Floyd Bartlett
Evaluator

6/25/2009
Date / Time

Application for Permit to Drill Statement of Basis

12/14/2009

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
2145	43013501750000	LOCKED	OW	P	No
Operator	NEWFIELD PRODUCTION COMPANY		Surface Owner-APD	John Dyer/Boundary Farms LLC	
Well Name	Greater Boundary II Federal Q-21-8-17		Unit	GMBU (GRRV)	
Field	MONUMENT BUTTE		Type of Work	DRILL	
Location	NWSW 21 8S 17E S 1810 FSL 661 FWL GPS Coord (UTM) 583720E 4439244N				

Geologic Statement of Basis

The mineral rights for the proposed well are owned by the Federal Government. The BLM will be the agency responsible for evaluating and approving the drilling, casing and cementing programs.

Brad Hill
APD Evaluator

11/9/2009
Date / Time

Surface Statement of Basis

The proposed Greater Boundary II Q-21-8-17 oil well is a directional well to be drilled from the existing pad of the Greater Boundary II 12-21-8-17 producing oil well. No changes to the previously disturbed area are planned. The reserve pit will be re-dug in approximately the original location on the southeast side of the pad. It however will be moved north 15 feet within the previous disturbance to provide the 29 feet needed between well bore and the reserve pit. The well is on a 20-acre spacing.

A field review of the existing pad showed no concerns as it now exists and should be a suitable for drilling and operating the proposed additional well.

Mr. John Dyer owns the surface. Three messages were left on Mr. Dyer's telephone answering machine informing him and inviting him to the pre-site evaluation. No return answer was received. Mr. Dyer did call on 6/29/2009 following the pre-site. He was informed as to the plans and seemed to have no significant concerns. The United States Government owns the minerals. Mr. James Hereford of the BLM was invited by email and telephone to the pre-site. He did not attend.

The reserve pit will be re-dug in approximately the original location on the southeast side of the pad. It however will be moved north 15 feet within the previous disturbance to provide the 29 feet needed between well bore and the reserve pit. Its dimensions are 80' x 40' x 8' deep. A 16-mil liner with an appropriate sub-liner is required

Floyd Bartlett
Onsite Evaluator

6/25/2009
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

WORKSHEET

APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 10/27/2009

API NO. ASSIGNED: 43013501750000

WELL NAME: Greater Boundary II Federal Q-21-8-17

OPERATOR: NEWFIELD PRODUCTION COMPANY (N2695)

PHONE NUMBER: 435 646-4825

CONTACT: Mandie Crozier

PROPOSED LOCATION: NWSW 21 080S 170E

Permit Tech Review: ☒

SURFACE: 1810 FSL 0661 FWL

Engineering Review: ☐

BOTTOM: 1205 FSL 1300 FWL

Geology Review: ☒

COUNTY: DUCHESNE

LATITUDE: 40.10122

LONGITUDE: -110.01779

UTM SURF EASTINGS: 583720.00

NORTHINGS: 4439244.00

FIELD NAME: MONUMENT BUTTE

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-76954

PROPOSED PRODUCING FORMATION(S): GREEN RIVER

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- ☒ **PLAT**
- ☒ **Bond:** FEDERAL - WYB000493
- ☐ **Potash**
- ☐ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ☒ **Water Permit:** 43-7478
- ☐ **RDCC Review:**
- ☒ **Fee Surface Agreement**
- ☐ **Intent to Commingle**

Commingle Approved

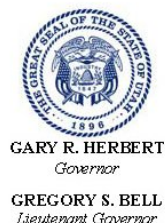
LOCATION AND SITING:

- ☐ **R649-2-3.**
- Unit:** GMBU (GRRV)
- ☐ **R649-3-2. General**
- ☒ **R649-3-3. Exception**
- ☒ **Drilling Unit**
- Board Cause No:** Cause 213-11
- Effective Date:** 11/30/2009
- Siting:** 460' fr unit boundary
- ☒ **R649-3-11. Directional Drill**

Comments: Presite Completed

Stipulations:

- 1 - Exception Location - dmason
- 4 - Federal Approval - dmason
- 5 - Statement of Basis - bhill
- 15 - Directional - dmason
- 27 - Other - bhill



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Greater Boundary II Federal Q-21-8-17
API Well Number: 43013501750000
Lease Number: UTU-76954
Surface Owner: FEE (PRIVATE)
Approval Date: 12/14/2009

Issued to:

NEWFIELD PRODUCTION COMPANY , Rt 3 Box 3630 , Myton, UT 84052

Authority:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 213-11. The expected producing formation or pool is the GREEN RIVER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Exception Location:

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Production casing cement shall be brought up to or above the top of the unitized interval for the Greater Monument Butte Unit (Cause No. 213-11).

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <https://oilgas.ogm.utah.gov>

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

Approved By:

A handwritten signature in black ink, appearing to read 'Gil Hunt', with a stylized flourish at the end.

For Gil Hunt
Associate Director, Oil & Gas

Spud
BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Ross # 29 Submitted
By Ryan Crum Phone Number 823-7065
Well Name/Number Greater ~~Marx Butte~~ Boundary II Q. 21. 8. 17
Qtr/Qtr NW/SW Section 21 Township 8s Range 17e
Lease Serial Number UTU-76954
API Number 43-013501750000

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 7/2/10 8:00 AM ☒ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☒ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☐ Other

Date/Time 7/2/10 2:00 AM ☐ PM ☒

BOPE

- ☐ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

Date/Time _____ AM ☐ PM ☐

Remarks _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

SUBMIT IN TRIPLICATE - Other Instructions on page 2

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630
Myton, UT 84052

3b. Phone (include area code)
435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Section 21 T8S R17E

5. Lease Serial No.

USA UTU-76954

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or
GMBU

8. Well Name and No.

GRTR BNDRY II Q-21-8-17

9. API Well No.

4301350175

10. Field and Pool, or Exploratory Area

GREATER MB UNIT

11. County or Parish, State

DUCHESNE, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Spud Notice
	<input type="checkbox"/> Convert to Injector	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On 7/2/10 MIRU Ross # 29. Spud well @ 8:00am. Drill 350' of 12 1/4" hole with air mist. TIH W/ 8 Jt's 8 5/8" J-55 24 # csgn. Set @ 351.17' On 7/3/10 cement with 160 sks of class "G" w/ 3% CaCL2 + 1/4# sk Cello- Flake Mixed @ 15.8 ppg > 1.17 cf/ sk yeild. Returned 1 bbls cement to pit. WOC.

I hereby certify that the foregoing is true and correct (Printed/ Typed)

Don Bastian

Signature 

Title

Drilling Foreman

Date

07/07/2010

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)

RECEIVED

JUL 12 2010

DIV. OF OIL, GAS & MINING

NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

8 5/8"	CASING SET AT	351.17
--------	---------------	--------

LAST CASING 14" SET AT 20

DATUM	12.00
-------	-------

DATUM TO CUT OFF CASING 12.00

DATUM TO BRADENHEAD FLANGE	12.00
----------------------------	-------

TD DRILLER	350	LOGGER
------------	-----	--------

HOLE SIZE 12 1/4"

OPERATOR **Newfield Exploration Company**

WELL GRTR BNDRY II Q-21-8-17

FIELD/PROSPECT **Monument Butte**

CONTRACTOR & RIG # **Ross Rig #29**

LOG OF CASING STRING:

[illegible]

CEMENT USED		CEMENT COMPANY- BJ Services
STAGE	# SX	CEMENT TYPE & ADDITIVES
1	160	Class G + 2% calcium Chloride + 0.25# Cello Flake @ 15.8 ppg w/1.17 yield
CENTRALIZER & SCRATCHER PLACEMENT		SHOW MAKE & SPACING
Middle 1st top 2nd & 3rd For total of 3		

COMPANY REPRESENTATIVE

Don Bastian

DATE 7/3/2010

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
ENTITY ACTION FORM -FORM 6

OPERATOR: NEWFIELD PRODUCTION COMPANY
ADDRESS: RT. 3 BOX 3630
MYTON, UT 84052

OPERATOR ACCT. NO. N2695

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	17400 ✓	4301350210	GREATER MONUMENT BUTTE C-1-9-16	SESW	36	8	16E	DUCHESNE	6/25/2010	7/26/10
WELL 1 COMMENTS: GRRV BHL = Sec 1 T9S NWNE											
A	99999	17693	4304750986	HANCOCK 4-23-4-1	NWNW	23	4S	1W	UINTAH	7/1/2010	7/26/10
GRRV											
B	99999	17400 ✓	4301350175	GREATER BOUNDARY II FED Q-21-8-17	NWSW	21	8S	17E	DUCHESNE	7/2/2010	7/26/10
GRRV BHL = SWSEW											
A	99999	17694	4304750980	UTE TRIBAL 6-23-4-1	SESW	23	4S	1W	UINTAH	7/3/2010	7/26/10
GRRV											
A	99999	17695	4304750945	HANCOCK 9-24-4-1	NESE	24	4S	1W	UINTAH	7/4/2010	7/26/10
WELL 5 COMMENTS: GRRV											
A	99999	17696	4301350271	UTE TRIBAL 2-19-4-1	NWNE	19	4S	1W	DUCHESNE	7/6/2010	7/26/10
WELL 5 COMMENTS: GRRV											

ACTION CODES (See instructions on back of form)

- A - new entity for new well (single well only)
- B - well to existing entity (group or unit well)
- C - from one existing entity to another existing entity
- D - well from one existing entity to a new entity
- E - other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

RECEIVED

JUL 19 2010

DIV OF OIL GAS & MINING

Signature

Production Clerk

Jentri Park

07/19/10

Date

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:
USA UTU-76954

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:
GMBU

1. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ OTHER

8. WELL NAME and NUMBER:
GRTR BNDRY II Q-21-8-17

2. NAME OF OPERATOR:
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:
4301350175

3. ADDRESS OF OPERATOR:
Route 3 Box 3630 CITY Myton STATE UT ZIP 84052

PHONE NUMBER
435.646.3721

10. FIELD AND POOL, OR WILDCAT:
GREATER MB UNIT

4. LOCATION OF WELL:
FOOTAGES AT SURFACE: 1810 FSL 0661 FWL

COUNTY: DUCHESNE

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: , 21, T8S, R17E

STATE: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON	
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: 07/30/2010	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Weekly Status Report	
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION		

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The above subject well was completed on 07/30/10, attached is a daily completion status report.

NAME (PLEASE PRINT) Lucy Chavez-Naupoto

TITLE Administrative Assistant

SIGNATURE

DATE 08/02/2010

(This space for State use only)

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DIV. OF OIL, GAS & MINING

Daily Activity Report

Format For Sundry

GRTR BNDRY II Q-21-8-17**5/1/2010 To 9/30/2010****7/19/2010 Day: 1****Completion**

Rigless on 7/19/2010 - Run CBL & perforate stage #1. - Install 5m frac head. NU 6" 5K Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head, csg & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 6593' & cement top @36 '. Perforate stage #1, CP4 sds @ (6403'-10') w/ 3 1/8" Port plug guns (11 gram .36" EH 16.82" pen) w/ 3 spf for total of 21 shots. CP4 sds @ (6385'-87') w/ 3 1/8" Port plug guns (11 gram .36" EH 16.82" pen) w/ 3 spf for total of 6 shots. CP4 sds @ (6374'-76') w/ 3 1/8" Port plug guns (11 gram .36" EH 16.82" pen) w/ 3 spf for total of 6 shots. RD H/O truck & The Perforators WLT & mast. Wait on frac crew

Daily Cost: \$0**Cumulative Cost:** \$12,660

7/22/2010 Day: 2**Completion**

Rigless on 7/22/2010 - MIRU PSI WL & Bj Services. Frac 1st stage. Perforate & frac remaining 4 stage. Flowback well for 5 1/2 hrs. Turned to oil. SIWFN w/ 1120 BWTR. - MIRU PSI WL & Bj Services. Frac 1st stage. Perforate & frac remaining 4 stage. Flowback well for 5 1/2 hrs. Turned to oil. SIWFN w/ 1120 BWTR.

Daily Cost: \$0**Cumulative Cost:** \$94,787

7/27/2010 Day: 3**Completion**

WWS #1 on 7/27/2010 - Set kill plug. MIRU WWS #1. Change out BOP & WH. Talley, PU & RIH w/ 4 3/4" chomp bit & 100 jts of 2 7/8" J-55 tbg. EOT @ 3069'. SIWFN w/ 1105 BWTR. - 500 psi on well. MIRU Perforators LLC WLT, crane & lubricators. Hot oiler pumped 10 BW down csg. RIH w/ weatherford solid composite kill plug. Set plug @ 4716'. RD WL. MIRU WWS #1. Bleed off well. ND Camerons BOP & 5M WH. NU 3M WH & Schaffer BOP. Talley, PU & RIH w/ 4 3/4" chomp bit & 100 jts of 2 7/8" J-55 tbg. EOT @ 3069'. SIWFN w/ 1105 BWTR.

Daily Cost: \$0**Cumulative Cost:** \$104,805

7/28/2010 Day: 4**Completion**

WWS #1 on 7/28/2010 - Drill out plugs. C/O to PBTD. LD 2 jts of tbg. RU swab equipment. Made 3 swab runs. SIWFN w/ 1155 BWTR. - Continue PU tbg. Tagged kill plug @ 4730'. RU Nabors power swivel. Drill out plugs. Kill plug @ 4730', Drilled up in 32 mins. Tagged sand @ 4786', Plug @ 4900' (Drilled out in 30 mins). Plug @ 5560' (Drilled out in 34 mins). Plug @ 5935' (Drilled out in 42 mins). Tagged fill @ 6228', Plug @ 6285' (Drilled out in 20 mins). Tagged fill @ 6502', C/O to PBTD to 6643'. RD power swivel. LD 2 jts. RU swab equipment. IFL @ surface. Made 3 swab runs. Rec 50 BTF. SIWFN w/ 1155 BWTR.

Daily Cost: \$0**Cumulative Cost:** \$150,047

7/29/2010 Day: 5**Completion**

WWS #1 on 7/29/2010 - Swab. C/O to PBTD. TOH w/ tbg. LD bit. TIH w/ production tbg. TA would not set. TOH w/ 150 jts of tbg. - 50 psi on tbg, 100 psi on tbg. Continue swab. Made 9 runs. Rec 145 BTF. FFL @ 600'. TIH w/ 2 jts of tbg. C/O to PBTD. LD 6 jts. TOH w/ 210 jts. LD 4 3/4" bit. TIH w/ production tbg. ND BOP. Try to set TA. No luck. Land tbg. Flush tbg w/ 60 BW. Unland tbg. Try to set TA. Would not set. NU BOP. TOH w/ 150 jts of tbg. SIWFN w/ 1215 BWTR.

Daily Cost: \$0

Cumulative Cost: \$156,225

7/30/2010 Day: 6

Completion

WWS #1 on 7/30/2010 - Continue TOH w/ tbg. PU new TA. TIH w/ tbg. ND BOP. Set TA. NU WH. PU & RIH w/ "A" grade rod string. Hang head, Space out rods. Pressure test to 800 psi. RDMOSU. POP @ 4:00 PM w/ 144" SL @ 5 SPM. 1218 BWTR. - 0 psi on well. Continue TOH w/ tbg. PU new TA. TIH w/ tbg same as pulled: NC, 2-jts, SN, 1 jt, TA, 207 jts of tbg. ND BOP. Set TA w/ 18,000#'s of tension. NU WH. PU & RIH w/ "A" grade rod string as follows: Central hydraulic 2 1/2" X 1 3/4" X 20' X 24' RHAC, 4- 1 1/2" wt bars, 250- 7/8" Guided rods (8 per), 1- 8', 1- 4', 1- 2' X 7/8" pony rods, 1 1/2" X 30' polish rod. Hang head, Space out rods. Fill tbg w/ 3 bbls of wtr. Pressure test to 800 psi w/ unit. RDMOSU. POP @ 4:00 PM w/ 144" SL @ 5 SPM. 1218 BWTR. Final Report. **Finalized**

Daily Cost: \$0

Cumulative Cost: \$195,707

Pertinent Files: Go to File List

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,
Other: _____

2. Name of Operator
NEWFIELD EXPLORATION COMPANY

3. Address
1401 17TH ST. SUITE 1000 DENVER, CO 80202

3a. Phone No. (include area code)
(435)646-3721

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

BHL Per HSM

At surface 1810' FSL & 661' FWL (NW/SW) SEC. 21, T8S, R17E (UTU-76954)

At top prod. interval reported below 1269' FSL & 1228' FWL (SW/SW) SEC. 21, T8S, R17E (UTU-76954)

At total depth 1011' FSL & 1493' FWL (SE/SW) SEC. 21, T8S, R17E (UTU-76954)

14. Date Spudded
07/02/2010

15. Date T.D. Reached
07/10/2010

16. Date Completed 07/28/2010
☐ D & A ☒ Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*
5250' GL 5262' KB

18. Total Depth: MD 6700'
TVD 6569' 81

19. Plug Back T.D.: MD 6643'
TVD 6530

20. Depth Bridge Plug Set: MD
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
DUAL IND GRD, SP, COMP. DENSITY, COMP. NEUTRON, GR, CALIPER, CMT BOND

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit report)
Directional Survey? ☐ No ☒ Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Pipe Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cement Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	8-5/8" J-55	24#	0	351'		160 CLASS G			
7-7/8"	5-1/2" J-55	15.5#	0	6688'		325 PRIMLITE		36'	
						425 50/50 POZ			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8"	EOT @ 6458'	TA @ 6364'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Green River			6374-6410' CP4	.36"	3	33
B) Green River			6171-6218' CP.5 CP1	.34"	3	27
C) Green River			5817-5853' A1 A3	.34"	3	21
D) Green River			5480-5485' C	.34"	3	15

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material
6374-6410'	Frac w/ 19670#s 20/40 sand in 171 bbls of Lightning 17 fluid.
6171-6218'	Frac w/ 29949#s 20/40 sand in 255 bbls of Lightning 17 fluid.
5817-5853'	Frac w/ 25204#s 20/40 sand in 212 bbls of Lightning 17 fluid.
5480-5485'	Frac w/ 15246#s 20/40 sand in 130 bbls of Lightning 17 fluid.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
7-29-10	8-16-10	24	→	20	7.38	14			2-1/2" x 1-3/4" x 20' x 24' RHAC Pump
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→					PRODUCING	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

*(See instructions and spaces for additional data on page 2)

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28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

29. Disposition of Gas (Solid, used for fuel, vented, etc.)

USED FOR FUEL

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

GEOLOGICAL MARKERS

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GARDEN GULCH MRK GARDEN GULCH 1	4264' 4459'
				GARDEN GULCH 2 POINT 3	4582' 4869'
				X MRKR Y MRKR	5106' 5143'
				DOUGALS CREEK MRK BI CARBONATE MRK	5279' 5541'
				B LIMESTON MRK CASTLE PEAK	5704' 6150'
				BASAL CARBONATE	6570'

32. Additional remarks (include plugging procedure):

Stage 5: Green River Formation (GB4 & GB6) 4773-4826', .34" 3/30 Frac w/ 36953#'s of 20/40 sand in 238 bbls of Lightning 17 fluid

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (I full set req'd.)
 ☐ Geologic Report
 ☐ DST Report
 ☒ Directional Survey
☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☒ Other: Drilling Daily Activity

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) Lucy Chavez-NaupotoTitle Administrative AssistantSignature Date 08/11/2010

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 3)

(Form 3160-4, page 2)



NEWFIELD EXPLORATION

**USGS Myton SW (UT)
SECTION 21 T8S, R17E
Q-21-8-17**

Wellbore #1

Design: Actual

Standard Survey Report

14 July, 2010





HATHAWAY BURNHAM

Survey Report



Company: NEWFIELD EXPLORATION
Project: USGS Myton SW (UT)
Site: SECTION 21 T8S, R17E
Well: Q-21-8-17
Wellbore: Wellbore #1
Design: Actual

Local Co-ordinate Reference: Well Q-21-8-17
TVD Reference: Q-21-8-17 @ 5262.0ft (RIG #2)
MD Reference: Q-21-8-17 @ 5262.0ft (RIG #2)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.21 Single User Db

Project	USGS Myton SW (UT), DUCHESNE COUNTY, UT, USA		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		

Site		SECTION 21 T8S, R17E			
Site Position:		Northing:	7,210,000.00 ft	Latitude:	40° 6' 13.990 N
From:	Lat/Long	Easting:	2,055,000.00 ft	Longitude:	110° 1' 3.925 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.95 °

Well	Q-21-8-17, SHL LAT: 40 06 04.17, LONG: -110 01 06.70					
Well Position	+N/-S	0.0 ft	Northing:	7,209,002.93 ft	Latitude:	40° 6' 4.170 N
	+E/-W	0.0 ft	Easting:	2,054,800.85 ft	Longitude:	110° 1' 6.700 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	5,262.0 ft	Ground Level:	5,250.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2010/07/02	11.43	65.87	52,404

Design	Actual				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	133.64	

Survey Program	Date 2010/07/14				
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
421.0	6,683.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard	

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
421.0	0.60	162.00	421.0	-2.1	0.7	1.9	0.14	0.14	0.00
452.0	0.80	129.00	452.0	-2.4	0.9	2.3	1.42	0.65	-106.45
482.0	0.80	143.50	482.0	-2.7	1.2	2.7	0.67	0.00	48.33
513.0	1.10	138.40	513.0	-3.1	1.5	3.2	1.00	0.97	-16.45
544.0	1.50	144.80	544.0	-3.6	1.9	3.9	1.37	1.29	20.65
605.0	1.60	146.40	605.0	-5.0	2.9	5.5	0.18	0.16	2.62
636.0	1.70	140.50	635.9	-5.7	3.4	6.4	0.64	0.32	-19.03
667.0	2.00	134.20	666.9	-6.4	4.1	7.4	1.17	0.97	-20.32
697.0	2.50	125.80	696.9	-7.2	5.0	8.6	1.99	1.67	-28.00
728.0	3.00	124.80	727.9	-8.1	6.2	10.1	1.62	1.61	-3.23
758.0	3.40	121.40	757.8	-9.0	7.6	11.7	1.48	1.33	-11.33
789.0	3.90	122.70	788.8	-10.0	9.3	13.6	1.63	1.61	4.19



HATHAWAY BURNHAM

Survey Report



Company: NEWFIELD EXPLORATION
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 Site: SECTION 21 T8S, R17E
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 Wellbore: Wellbore #1
 Design: Actual

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 MD Reference: Q-21-8-17 @ 5262.0ft (RIG #2)
 North Reference: True
 Survey Calculation Method: Minimum Curvature
 Database: EDM 2003.21 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
820.0	4.30	124.00	819.7	-11.2	11.1	15.8	1.32	1.29	4.19
851.0	4.50	126.80	850.6	-12.6	13.1	18.2	0.95	0.65	9.03
881.0	4.90	128.00	880.5	-14.1	15.0	20.6	1.37	1.33	4.00
912.0	5.50	128.50	911.4	-15.8	17.2	23.4	1.94	1.94	1.61
944.0	6.20	130.30	943.2	-17.9	19.7	26.7	2.26	2.19	5.63
976.0	6.90	131.80	975.0	-20.3	22.5	30.3	2.25	2.19	4.69
1,008.0	7.50	132.10	1,006.7	-23.0	25.5	34.3	1.88	1.88	0.94
1,039.0	8.20	133.80	1,037.4	-25.9	28.6	38.5	2.38	2.26	5.48
1,071.0	8.80	132.90	1,069.1	-29.1	32.0	43.3	1.92	1.88	-2.81
1,103.0	9.40	131.50	1,100.7	-32.5	35.8	48.3	2.00	1.88	-4.38
1,134.0	10.10	130.60	1,131.2	-36.0	39.7	53.6	2.31	2.26	-2.90
1,166.0	10.50	130.10	1,162.7	-39.7	44.1	59.3	1.28	1.25	-1.56
1,198.0	11.00	130.00	1,194.2	-43.5	48.7	65.2	1.56	1.56	-0.31
1,230.0	11.30	130.30	1,225.6	-47.5	53.4	71.4	0.95	0.94	0.94
1,261.0	11.40	131.50	1,255.9	-51.5	58.0	77.5	0.83	0.32	3.87
1,293.0	12.10	132.70	1,287.3	-55.9	62.8	84.0	2.32	2.19	3.75
1,325.0	12.50	132.70	1,318.5	-60.5	67.8	90.8	1.25	1.25	0.00
1,356.0	12.90	134.10	1,348.8	-65.2	72.8	97.7	1.63	1.29	4.52
1,388.0	13.00	133.90	1,380.0	-70.2	78.0	104.8	0.34	0.31	-0.63
1,420.0	13.10	132.40	1,411.1	-75.1	83.2	112.1	1.10	0.31	-4.69
1,451.0	13.50	132.60	1,441.3	-79.9	88.5	119.2	1.30	1.29	0.65
1,483.0	13.40	132.30	1,472.4	-84.9	94.0	126.6	0.38	-0.31	-0.94
1,515.0	13.50	131.30	1,503.6	-89.9	99.5	134.1	0.79	0.31	-3.13
1,547.0	13.80	131.60	1,534.7	-94.9	105.2	141.6	0.96	0.94	0.94
1,578.0	13.70	131.80	1,564.8	-99.8	110.7	149.0	0.36	-0.32	0.65
1,610.0	14.00	131.60	1,595.8	-104.9	116.4	156.6	0.95	0.94	-0.63
1,642.0	14.00	132.30	1,626.9	-110.1	122.2	164.4	0.53	0.00	2.19
1,673.0	13.80	132.50	1,657.0	-115.1	127.7	171.8	0.66	-0.65	0.65
1,705.0	14.10	132.60	1,688.0	-120.3	133.3	179.5	0.94	0.94	0.31
1,737.0	13.60	133.00	1,719.1	-125.5	139.0	187.2	1.59	-1.56	1.25
1,769.0	13.00	132.90	1,750.2	-130.5	144.4	194.6	1.88	-1.88	-0.31
1,800.0	13.00	132.90	1,780.4	-135.3	149.5	201.5	0.00	0.00	0.00
1,832.0	13.10	132.80	1,811.6	-140.2	154.8	208.7	0.32	0.31	-0.31
1,864.0	12.40	132.50	1,842.8	-145.0	160.0	215.8	2.20	-2.19	-0.94
1,895.0	11.72	130.90	1,873.1	-149.3	164.8	222.3	2.44	-2.19	-5.16
1,927.0	11.80	129.90	1,904.5	-153.5	169.8	228.8	0.68	0.25	-3.13
1,959.0	11.90	129.90	1,935.8	-157.7	174.8	235.4	0.31	0.31	0.00
1,990.0	11.60	129.30	1,966.1	-161.8	179.7	241.6	1.04	-0.97	-1.94
2,022.0	11.40	128.80	1,997.5	-165.8	184.6	248.0	0.70	-0.63	-1.56
2,054.0	11.20	130.90	2,028.9	-169.8	189.4	254.3	1.43	-0.63	6.56
2,085.0	11.10	131.90	2,059.3	-173.8	193.9	260.3	0.70	-0.32	3.23
2,117.0	11.20	133.30	2,090.7	-177.9	198.5	266.4	0.90	0.31	4.38
2,149.0	11.10	133.20	2,122.1	-182.2	203.0	272.6	0.32	-0.31	-0.31
2,181.0	11.00	134.20	2,153.5	-186.4	207.4	278.8	0.68	-0.31	3.13
2,212.0	10.90	137.20	2,183.9	-190.6	211.5	284.6	1.87	-0.32	9.68
2,244.0	10.80	137.10	2,215.4	-195.1	215.6	290.7	0.32	-0.31	-0.31
2,276.0	10.60	135.80	2,246.8	-199.4	219.7	296.6	0.98	-0.63	-4.06
2,307.0	10.30	138.20	2,277.3	-203.5	223.6	302.2	1.71	-0.97	7.74
2,339.0	10.00	140.00	2,308.8	-207.7	227.2	307.8	1.36	-0.94	5.63
2,370.0	10.00	138.10	2,339.3	-211.8	230.8	313.2	1.06	0.00	-6.13
2,402.0	10.00	137.90	2,370.8	-215.9	234.5	318.7	0.11	0.00	-0.63
2,434.0	10.20	138.90	2,402.3	-220.1	238.2	324.3	0.83	0.63	3.13
2,465.0	10.20	138.20	2,432.8	-224.2	241.9	329.8	0.40	0.00	-2.26
2,497.0	10.00	138.60	2,464.3	-228.4	245.6	335.4	0.66	-0.63	1.25



HATHAWAY BURNHAM

Survey Report



Company: NEWFIELD EXPLORATION
 Project: USGS Myton SW (UT)
 Site: SECTION 21 T8S, R17E
 Well: Q-21-8-17
 Wellbore: Wellbore #1
 Design: Actual

Local Co-ordinate Reference: Well Q-21-8-17
 TVD Reference: Q-21-8-17 @ 5262.0ft (RIG #2)
 MD Reference: Q-21-8-17 @ 5262.0ft (RIG #2)
 North Reference: True
 Survey Calculation Method: Minimum Curvature
 Database: EDM 2003.21 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
2,529.0	9.80	138.60	2,495.9	-232.6	249.2	340.8	0.63	-0.63	0.00
2,561.0	9.90	139.50	2,527.4	-236.7	252.8	346.3	0.57	0.31	2.81
2,592.0	10.10	138.50	2,557.9	-240.8	256.3	351.7	0.85	0.65	-3.23
2,624.0	10.30	138.20	2,589.4	-245.0	260.1	357.3	0.65	0.63	-0.94
2,655.0	10.70	138.40	2,619.9	-249.2	263.9	362.9	1.30	1.29	0.65
2,687.0	10.90	137.80	2,651.3	-253.7	267.9	368.9	0.72	0.63	-1.88
2,718.0	11.10	136.30	2,681.8	-258.0	271.9	374.8	1.13	0.65	-4.84
2,750.0	11.00	134.30	2,713.2	-262.4	276.2	380.9	1.24	-0.31	-6.25
2,781.0	11.30	133.20	2,743.6	-266.5	280.5	386.9	1.19	0.97	-3.55
2,813.0	11.60	133.50	2,775.0	-270.9	285.2	393.3	0.96	0.94	0.94
2,845.0	11.70	132.90	2,806.3	-275.3	289.9	399.8	0.49	0.31	-1.88
2,877.0	12.00	133.50	2,837.6	-279.8	294.7	406.3	1.01	0.94	1.88
2,908.0	12.00	131.40	2,867.9	-284.1	299.4	412.8	1.41	0.00	-6.77
2,940.0	12.00	131.00	2,899.2	-288.5	304.4	419.4	0.26	0.00	-1.25
2,972.0	11.90	132.80	2,930.5	-292.9	309.3	426.0	1.21	-0.31	5.63
3,004.0	12.00	131.90	2,961.8	-297.4	314.2	432.7	0.66	0.31	-2.81
3,035.0	12.30	133.50	2,992.2	-301.8	319.0	439.2	1.45	0.97	5.16
3,067.0	12.50	132.30	3,023.4	-306.5	324.1	446.1	1.02	0.63	-3.75
3,099.0	12.50	131.90	3,054.6	-311.1	329.2	453.0	0.27	0.00	-1.25
3,130.0	12.40	132.70	3,084.9	-315.6	334.2	459.7	0.64	-0.32	2.58
3,162.0	11.90	131.60	3,116.2	-320.2	339.1	466.4	1.72	-1.56	-3.44
3,194.0	11.30	130.80	3,147.5	-324.4	344.0	472.8	1.94	-1.88	-2.50
3,226.0	10.80	131.50	3,179.0	-328.4	348.6	478.9	1.62	-1.56	2.19
3,257.0	10.40	132.90	3,209.4	-332.3	352.8	484.6	1.53	-1.29	4.52
3,289.0	10.20	133.20	3,240.9	-336.2	357.0	490.4	0.65	-0.63	0.94
3,321.0	10.20	134.60	3,272.4	-340.1	361.1	496.0	0.77	0.00	4.38
3,352.0	10.20	135.60	3,302.9	-344.0	365.0	501.5	0.57	0.00	3.23
3,384.0	10.60	132.60	3,334.4	-348.0	369.1	507.3	2.10	1.25	-9.38
3,416.0	11.10	129.50	3,365.8	-352.0	373.7	513.3	2.40	1.56	-9.69
3,447.0	11.10	131.70	3,396.2	-355.8	378.2	519.3	1.37	0.00	7.10
3,479.0	10.90	131.00	3,427.7	-359.9	382.8	525.4	0.75	-0.63	-2.19
3,511.0	10.90	132.50	3,459.1	-363.9	387.3	531.4	0.89	0.00	4.69
3,543.0	11.20	133.60	3,490.5	-368.1	391.8	537.6	1.15	0.94	3.44
3,574.0	11.20	132.30	3,520.9	-372.2	396.2	543.6	0.81	0.00	-4.19
3,606.0	11.00	133.90	3,552.3	-376.4	400.7	549.7	1.15	-0.63	5.00
3,638.0	10.60	135.30	3,583.7	-380.6	404.9	555.7	1.49	-1.25	4.38
3,669.0	10.80	135.70	3,614.2	-384.7	409.0	561.5	0.69	0.65	1.29
3,701.0	11.30	135.70	3,645.6	-389.1	413.3	567.6	1.56	1.56	0.00
3,733.0	11.80	135.30	3,676.9	-393.7	417.8	574.0	1.58	1.56	-1.25
3,765.0	12.20	134.00	3,708.2	-398.4	422.5	580.7	1.51	1.25	-4.06
3,796.0	12.60	131.90	3,738.5	-402.9	427.4	587.3	1.94	1.29	-6.77
3,828.0	12.70	133.30	3,769.7	-407.6	432.5	594.3	1.01	0.31	4.38
3,860.0	12.50	132.70	3,801.0	-412.4	437.6	601.3	0.75	-0.63	-1.88
3,892.0	12.20	133.70	3,832.2	-417.1	442.6	608.2	1.15	-0.94	3.13
3,923.0	11.90	135.80	3,862.6	-421.6	447.2	614.6	1.71	-0.97	6.77
3,955.0	11.60	133.80	3,893.9	-426.2	451.8	621.1	1.58	-0.94	-6.25
3,986.0	11.90	135.90	3,924.2	-430.7	456.3	627.4	1.68	0.97	6.77
4,018.0	12.20	135.70	3,955.5	-435.5	461.0	634.1	0.95	0.94	-0.63
4,050.0	12.30	135.60	3,986.8	-440.3	465.7	640.9	0.32	0.31	-0.31
4,082.0	12.30	135.00	4,018.1	-445.2	470.5	647.7	0.40	0.00	-1.88
4,113.0	12.20	136.40	4,048.4	-449.9	475.1	654.3	1.01	-0.32	4.52
4,146.0	11.90	135.50	4,080.6	-454.8	479.9	661.2	1.07	-0.91	-2.73
4,177.0	11.80	136.90	4,111.0	-459.4	484.3	667.5	0.98	-0.32	4.52
4,209.0	11.60	134.60	4,142.3	-464.1	488.8	674.0	1.59	-0.63	-7.19



Company: NEWFIELD EXPLORATION
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 MD Reference: Q-21-8-17 @ 5262.0ft (RIG #2)
 North Reference: True
 Survey Calculation Method: Minimum Curvature
 Database: EDM 2003.21 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,241.0	11.30	133.90	4,173.7	-468.5	493.4	680.4	1.03	-0.94	-2.19
4,273.0	11.70	134.30	4,205.0	-472.9	498.0	686.8	1.27	1.25	1.25
4,304.0	11.80	135.80	4,235.4	-477.4	502.4	693.1	1.04	0.32	4.84
4,336.0	11.80	135.80	4,266.7	-482.1	507.0	699.6	0.00	0.00	0.00
4,368.0	12.00	135.00	4,298.0	-486.8	511.6	706.2	0.81	0.63	-2.50
4,399.0	12.00	133.70	4,328.3	-491.3	516.2	712.6	0.87	0.00	-4.19
4,431.0	11.60	133.70	4,359.7	-495.8	520.9	719.2	1.25	-1.25	0.00
4,463.0	11.30	134.30	4,391.0	-500.2	525.5	725.5	1.01	-0.94	1.88
4,495.0	11.40	134.00	4,422.4	-504.6	530.0	731.8	0.36	0.31	-0.94
4,526.0	11.40	134.30	4,452.8	-508.9	534.4	738.0	0.19	0.00	0.97
4,558.0	11.10	135.50	4,484.2	-513.3	538.9	744.2	1.19	-0.94	3.75
4,590.0	10.80	134.40	4,515.6	-517.6	543.2	750.3	1.14	-0.94	-3.44
4,621.0	10.60	134.70	4,546.0	-521.6	547.3	756.0	0.67	-0.65	0.97
4,653.0	10.40	133.60	4,577.5	-525.7	551.4	761.9	0.88	-0.63	-3.44
4,685.0	10.20	134.30	4,609.0	-529.7	555.6	767.6	0.74	-0.63	2.19
4,716.0	10.10	135.90	4,639.5	-533.5	559.4	773.0	0.97	-0.32	5.16
4,748.0	10.00	135.20	4,671.0	-537.5	563.3	778.6	0.49	-0.31	-2.19
4,780.0	10.20	135.20	4,702.5	-541.5	567.3	784.2	0.63	0.63	0.00
4,812.0	10.90	134.70	4,734.0	-545.6	571.4	790.1	2.21	2.19	-1.56
4,843.0	11.30	134.50	4,764.4	-549.8	575.7	796.1	1.30	1.29	-0.65
4,875.0	11.30	134.90	4,795.8	-554.2	580.1	802.3	0.24	0.00	1.25
4,907.0	11.20	134.60	4,827.2	-558.6	584.6	808.6	0.36	-0.31	-0.94
4,938.0	10.90	135.00	4,857.6	-562.8	588.8	814.5	1.00	-0.97	1.29
4,970.0	10.30	134.10	4,889.0	-566.9	593.0	820.4	1.95	-1.88	-2.81
5,002.0	10.30	136.80	4,920.5	-571.0	597.0	826.1	1.51	0.00	8.44
5,034.0	10.30	137.90	4,952.0	-575.2	600.9	831.8	0.61	0.00	3.44
5,065.0	10.10	139.30	4,982.5	-579.4	604.5	837.3	1.03	-0.65	4.52
5,097.0	10.30	138.60	5,014.0	-583.6	608.2	842.9	0.74	0.63	-2.19
5,129.0	10.70	137.40	5,045.5	-588.0	612.1	848.8	1.42	1.25	-3.75
5,160.0	10.90	136.50	5,075.9	-592.2	616.1	854.6	0.84	0.65	-2.90
5,192.0	10.80	135.90	5,107.4	-596.5	620.3	860.6	0.47	-0.31	-1.88
5,224.0	10.90	136.10	5,138.8	-600.9	624.4	866.6	0.33	0.31	0.63
5,255.0	10.90	135.50	5,169.2	-605.1	628.5	872.4	0.37	0.00	-1.94
5,287.0	10.90	135.90	5,200.7	-609.4	632.8	878.5	0.24	0.00	1.25
5,319.0	10.80	134.90	5,232.1	-613.7	637.0	884.5	0.67	-0.31	-3.13
5,350.0	10.60	135.60	5,262.5	-617.8	641.0	890.3	0.77	-0.65	2.26
5,382.0	10.70	135.80	5,294.0	-622.0	645.2	896.2	0.33	0.31	0.63
5,384.8	10.71	135.88	5,296.7	-622.4	645.5	896.7	0.63	0.32	2.93
Q-21-8-17 TGT									
5,413.0	10.80	136.70	5,324.4	-626.2	649.2	902.0	0.63	0.32	2.90
5,445.0	10.50	138.50	5,355.9	-630.6	653.2	907.9	1.40	-0.94	5.63
5,477.0	10.30	139.20	5,387.4	-634.9	657.0	913.6	0.74	-0.63	2.19
5,509.0	10.30	140.60	5,418.9	-639.3	660.6	919.3	0.78	0.00	4.38
5,540.0	10.20	139.20	5,449.4	-643.5	664.2	924.8	0.87	-0.32	-4.52
5,572.0	10.10	139.30	5,480.9	-647.8	667.9	930.4	0.32	-0.31	0.31
5,604.0	9.80	138.10	5,512.4	-651.9	671.5	935.9	1.14	-0.94	-3.75
5,636.0	9.60	137.30	5,543.9	-655.9	675.2	941.3	0.75	-0.63	-2.50
5,667.0	9.60	138.30	5,574.5	-659.8	678.6	946.4	0.54	0.00	3.23
5,699.0	10.10	135.70	5,606.0	-663.8	682.4	951.9	2.09	1.56	-8.13
5,731.0	10.30	136.10	5,637.5	-667.8	686.3	957.6	0.66	0.63	1.25
5,762.0	10.00	134.10	5,668.0	-671.7	690.2	963.0	1.49	-0.97	-6.45
5,794.0	10.20	132.10	5,699.5	-675.5	694.3	968.6	1.26	0.63	-6.25
5,826.0	10.90	130.90	5,731.0	-679.4	698.6	974.5	2.29	2.19	-3.75
5,858.0	11.70	132.80	5,762.4	-683.6	703.3	980.7	2.76	2.50	5.94



HATHAWAY BURNHAM

Survey Report



Company: NEWFIELD EXPLORATION
Project: USGS Myton SW (UT)
Site: SECTION 21 T8S, R17E
Well: Q-21-8-17
Wellbore: Wellbore #1
Design: Actual

Local Co-ordinate Reference: Well Q-21-8-17
TVD Reference: Q-21-8-17 @ 5262.0ft (RIG #2)
MD Reference: Q-21-8-17 @ 5262.0ft (RIG #2)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.21 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,889.0	11.60	132.10	5,792.7	-687.8	707.9	987.0	0.56	-0.32	-2.26
5,921.0	11.30	131.90	5,824.1	-692.1	712.7	993.4	0.95	-0.94	-0.63
5,953.0	11.20	131.50	5,855.5	-696.2	717.3	999.6	0.40	-0.31	-1.25
5,984.0	11.60	131.00	5,885.9	-700.3	721.9	1,005.7	1.33	1.29	-1.61
6,016.0	12.00	131.20	5,917.2	-704.6	726.8	1,012.3	1.26	1.25	0.63
6,048.0	12.30	132.60	5,948.5	-709.1	731.9	1,019.0	1.31	0.94	4.38
6,079.0	12.30	132.90	5,978.8	-713.5	736.7	1,025.6	0.21	0.00	0.97
6,111.0	11.50	133.80	6,010.1	-718.1	741.5	1,032.2	2.57	-2.50	2.81
6,143.0	11.10	132.60	6,041.5	-722.4	746.1	1,038.5	1.45	-1.25	-3.75
6,174.0	11.40	132.70	6,071.9	-726.5	750.5	1,044.5	0.97	0.97	0.32
6,206.0	12.30	131.80	6,103.2	-730.9	755.4	1,051.1	2.87	2.81	-2.81
6,237.0	12.80	132.80	6,133.4	-735.4	760.4	1,057.8	1.76	1.61	3.23
6,269.0	13.00	133.90	6,164.6	-740.3	765.6	1,064.9	0.99	0.63	3.44
6,301.0	12.90	131.90	6,195.8	-745.2	770.8	1,072.1	1.43	-0.31	-6.25
6,333.0	13.00	132.20	6,227.0	-750.0	776.1	1,079.3	0.38	0.31	0.94
6,364.0	13.00	131.40	6,257.2	-754.7	781.3	1,086.3	0.58	0.00	-2.58
6,396.0	13.40	132.60	6,288.4	-759.5	786.8	1,093.6	1.52	1.25	3.75
6,427.0	13.10	130.80	6,318.5	-764.3	792.1	1,100.7	1.65	-0.97	-5.81
6,459.0	12.90	132.50	6,349.7	-769.1	797.5	1,107.9	1.35	-0.63	5.31
6,491.0	12.80	132.90	6,380.9	-773.9	802.7	1,115.0	0.42	-0.31	1.25
6,522.0	12.60	130.80	6,411.2	-778.4	807.8	1,121.8	1.62	-0.65	-6.77
6,554.0	12.10	130.80	6,442.4	-782.9	812.9	1,128.6	1.56	-1.56	0.00
6,585.0	11.60	129.20	6,472.8	-787.0	817.8	1,135.0	1.93	-1.61	-5.16
6,628.0	11.20	129.40	6,514.9	-792.4	824.4	1,143.4	0.93	-0.93	0.47
6,683.0	10.60	129.80	6,568.9	-799.0	832.4	1,153.8	1.10	-1.09	0.73

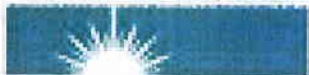
Wellbore Targets

Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- Shape									
Q-21-8-17 TGT	0.00	0.00	5,300.0	-607.0	636.5	7,208,406.56	2,055,447.33	40° 5' 58.171 N	110° 0' 58.508 W
- actual wellpath misses by 18.1ft at 5384.8ft MD (5296.7 TVD, -622.4 N, 645.5 E)									
- Circle (radius 75.0)									

Checked By: _____ Approved By: _____ Date: _____

NEWFIELD



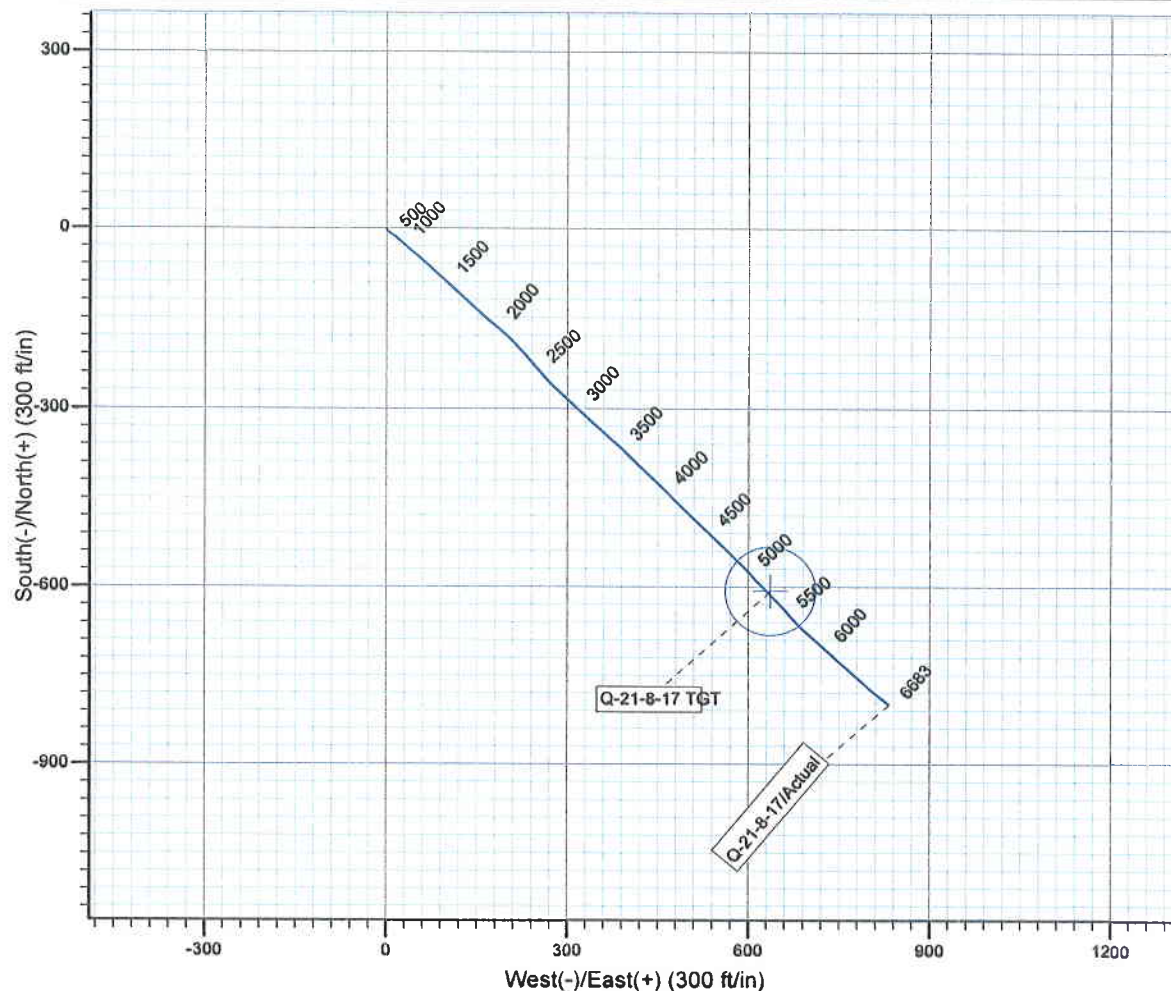
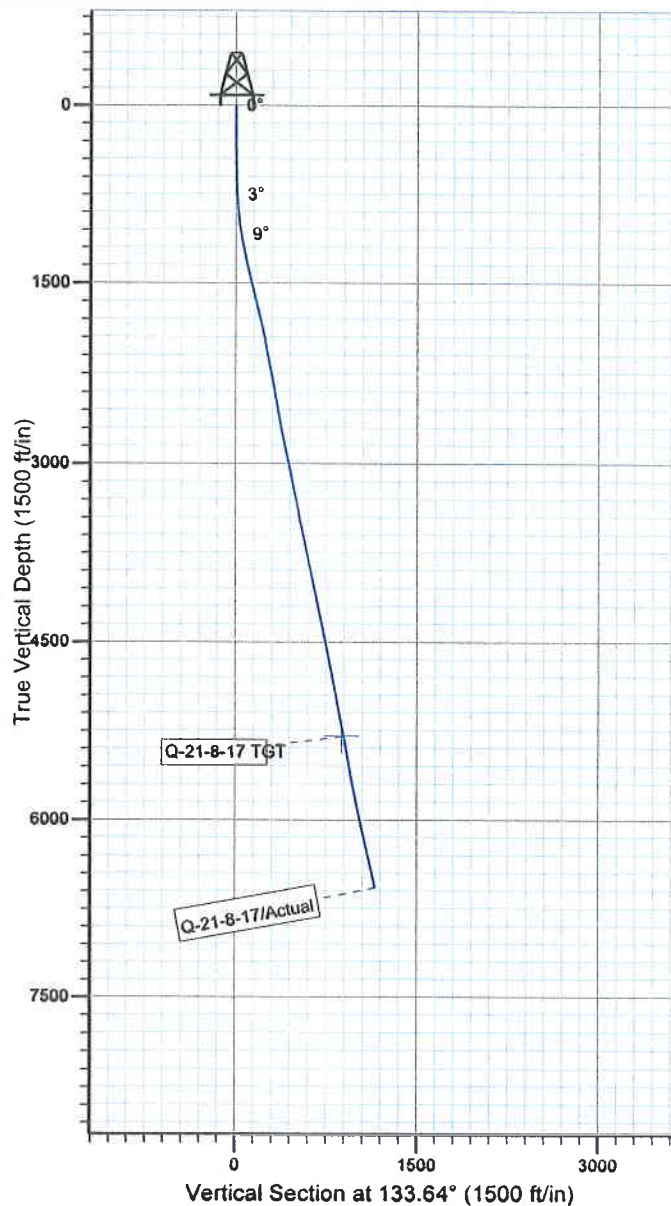
Project: USGS Myton SW (UT)
 Site: SECTION 21 T8S, R17E
 Well: Q-21-8-17
 Wellbore: Wellbore #1
 SURVEY: Actual

FINAL SURVEY REPORT



Azimuths to True North
 Magnetic North: 11.43°

Magnetic Field
 Strength: 52403.6snT
 Dip Angle: 65.87°
 Date: 2010/07/02
 Model: IGRF2010



HATHAWAY HBBURNHAM
 DIRECTIONAL & MWD SERVICES

Design: Actual (Q-21-8-17/Wellbore #1)

Created By: *Jim Hudson* Date: 19:32, July 14 2010
 THIS SURVEY IS CORRECT TO THE BEST OF MY
 KNOWLEDGE AND IS SUPPORTED BY ACTUAL FIELD DATA.

Daily Activity Report

Format For Sundry

GRTR BNDRY II Q-21-8-17**5/1/2010 To 9/30/2010****GRTR BNDRY II Q-21-8-17****Rigging Up****Date:** 7/3/2010

Ross #29 at 350. Days Since Spud - Chloride, +0.25# Cello Flake @ 15.8 ppg w/ 1.17 yield
Returned 1 bbl to pit -) On 7/3/10 Cemented With BJ Services.Cemented 8 5/8" Casing With
160 sks Class G + 2% Calcium - 12 1/4 " Hole. P/U Run 9 jts Of 8 5/8" Casing (Guide
Shoe,Shoe Jt. Baffel Plate,8 Jts 8 5/8' casing - Ross Rig # 29 Spud The Greater Boundry II
Federal Q-21-8-17 On 7/2/10 @ 8:00 AM. Drilled 350' Of - Nofitied BLM & State Via Email On
7/1/10 Of Spud

Daily Cost: \$0**Cumulative Cost:** \$50,491

GRTR BNDRY II Q-21-8-17**Rigging Up****Date:** 7/5/2010

NDSI #2 at 350. 0 Days Since Spud - Rig Down Prepair For Rig Move To GB II Fed Q-21-8-17
- Notified BLM & State On 7/4/10 Via Email Of Rig Move@ 7:00 AM & BOPE Test @ 1:00 PM
7/5/10

Daily Cost: \$0**Cumulative Cost:** \$55,341

GRTR BNDRY II Q-21-8-17**Drill 7 7/8" hole with fresh water****Date:** 7/6/2010

NDSI #2 at 1253. 1 Days Since Spud - No H2s Reported last 24 Hrs. - 7/5/10 MIRU Set
Surface Equipment With Marcus Liddell Trucking. (7.8 Mile Move From G-35-8-16) - Choke
Lines & Manafold To 2000 psi For 10 Mins. Test 8 5/8" Surface Casing To 1500 Psi For 30
Mins, - Everything Tested Ok - Replace Brake Bands On Drawworks.(Broken Eye On Band Pit
Side) - P/U BHA As Follows,Varel VM 616 PDC Bit,Hunting 7/8, 4.8 .33 Mud Motor,1x30' Monel
DC,1x4' Double - Gap Sub,1x3' Double Gap Sub,1x2' Atenna Sub, 1x30' Monel DC. Scribe
Directional Tools. - Drill 7 7/8" Hole From 351' To 1253'. 20,000 lbs WOB,168 TRPM,344
GPM,150.3 fph AVG ROP. - Drill Plug, Baffel Plate Cement & Shoe From 310' To 351" - Accept
Rig On 7/5/10 @ 13:30 PM. R/U B& C Quick Test,Test Safety,Upper Kelly Valves,Pipe & Blind
Ram

Daily Cost: \$0**Cumulative Cost:** \$98,606

GRTR BNDRY II Q-21-8-17**Drill 7 7/8" hole with fresh water****Date:** 7/7/2010

NDSI #2 at 4010. 2 Days Since Spud - Drill 7 7/8" Hole From 1253' To 2331', 20,000 lbs
WOB, 168 TRPM,344 GPM,143.3 fph ROP - Rig Service. Check Crown-A-Matic, Function Test
Bop's - Drill 7 7/8" Hole From 2331' To 4010', 23,000 lbs WOB 168 TRPM, 344 GPM,104.9 fph
AVG ROP - No H2s Reported Last 24 Hrs - Flow @ 3407' 10 Gal/Min - Last Survey,MD 3892'
Angle Deg. 12.20 Drift Dir. 133.70 TVD 3832' Dogleg Severity 1.15

Daily Cost: \$0**Cumulative Cost:** \$117,515

GRTR BNDRY II Q-21-8-17**Drill 7 7/8" hole with fresh water****Date:** 7/8/2010

NDSI #2 at 5595'. 3 Days Since Spud - Last Survey MD 5477' Angle Deg. 10.30, Drift Dir. 139.20 TVD 5387' Dogleg Severity.74 - No Flow - No H2s Reported Last 24 Hrs. - Drill 7 7/8" Hole From 4644' To 5595'. 24,000 lbs WOB,168 TRPM,344 GPM,61.3 fph AVG ROP. - Rig Service. Function Test Crown-A-Matic & Bop's. - Drill 7 7/8" Hole From 4010' To 4644'. 24,000 lbs WOB,168 TRPM,344 GPM, 75.3 fph AVG ROP

Daily Cost: \$0

Cumulative Cost: \$154,602

GRTR BNDRY II Q-21-8-17**Picking Up Drillpipe**

Date: 7/9/2010

NDSI #2 at 6700'. 4 Days Since Spud - Last Survey MD 6683' Angle Deg. 10.60 Drift Dir.129.80 TVD 5668' Dogleg Severity 1.10 - No Flow @ TD 6700' - No H2s Reported Last 24 Hrs. - Pickup Drillpipe. - Laydown Drillpipe To BHA. Well Flowing 8 gal/min.Decided To P/U Drillpipe To 4000' Pump Brine Water - Cir Hole For Laydown & Logs - Drill 7 7/8" Hole From 6007' To 6700' TD. 25,000 lsb WOB, 168 TRPM,344 GPM,60.2 fph AVH ROP - Rig Service,Function Test Bop's,Check Crown-A-Matic - Drill 7 7/8" Hole From 5595' To 6007', 25,000 lbs WOB, 168 TRPM, 344 GPM,63.6 fph AVG ROP - Laydown Drillpipe To BHA. Well Flowing 8 gal/min.

Daily Cost: \$0

Cumulative Cost: \$176,593

GRTR BNDRY II Q-21-8-17**Shut Well In Monitor Casing Pressure**

Date: 7/10/2010

NDSI #2 at 6700'. 5 Days Since Spud - Shut Well In Monitor Pressure On Well - No H2s Reported Last 24 Hrs. - Nipple Down Bop's,Set Slips With 90,000# Tension - cement To Pit. Bumped Plug To 2454 psi. - (50:50:2+3% KCL +0.5%EC-1+.25#CF+.005#SF+.3SMS+FP-6L)Displaced with 158.2 BBLS.Returned 28 bbls - (PL II+3% KCL+5#CSE+0.5#CF+2#KOL+.5SMS +FP+SF) Then 425 sk Tail Cement @ 14.4 W/1.24 yield - Hook Up BJ Services Hard Line. Test Lines To 4000 psi , Pump 325 sk Lead Cement @ 11ppg W/3.50 yield - Rig Up BJ Cement Head Circulate Casing With Rig Pump - Float Collar Set @ 6643.36.00' KB (3 jts Will Be Transferred To Next Well R-21-8-17) - R/u Mascus Liddell Casing Crew, Run 153 Jts 5.5" J-55 15.5# Casing Shoe Set @ 6688.41KB Top Float - R/U B&C Quick Test, Test 5 1/2" Pipe Rams To 2000 psi For 10 mins. Tested Ok - 6688' To 3000'. - With DISGL/SP/GR Suite From Loggers TD of 6688' To Surface Casing. And DSN//SDL/GR/CAL Suite From - Log Well With Phoenix Surveys,Run To Bottom Tools Quit Working Run Out Change Tools ,Run In Hole Log - LDDP & BHA - Circ Bottoms Up, Pump 260 bbls 10# Brine - Pick Up Drillpipe To 4000' - Clean Mud Tanks. Well Starting Flowing Water Back

Daily Cost: \$0

Cumulative Cost: \$333,378

GRTR BNDRY II Q-21-8-17**Wait on Completion**

Date: 7/11/2010

NDSI #2 at 6700'. 6 Days Since Spud - Rig Down Move to GB II Fed R-21-817, Remove Bop's Off Well, Install Well Head Packing And Jam Nut. - in To Rig Down - Well Shut In Monitor Casing Prepressure. 0 psi On Csg. Open well up. Give Back 1 Gal Water.Shut Back - Released Rig At 10:30 AM 7/10/10 **Finalized**

Daily Cost: \$0

Cumulative Cost: \$336,649

Pertinent Files: Go to File List

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0137
Expires July 31, 2010

5. Lease Serial No.
UTU-76954

6. If Indian, Allottee or Tribe Name
NA

1a. Type of work: ☒ DRILL ☐ REENTER

7. If Unit or CA Agreement, Name and No.
Greater Boundary II Mon. Butte

1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

8. Lease Name and Well No.
Greater Boundary II Federal Q-21-8-17

2. Name of Operator Newfield Production Company

9. API Well No.
43 013 50175

3a. Address Route #3 Box 3630, Myton UT 84052

3b. Phone No. (include area code)
(435) 646-3721

10. Field and Pool, or Exploratory
Monument Butte

4. Location of Well (Report location clearly and in accordance with any State requirements.)*

At surface NW/SW 1810' FSL 661' FWL

At proposed prod. zone SW/SW 1205' FSL 1300' FWL

11. Sec., T. R. M. or Blk. and Survey or Area
Sec. 21, T8S R17E

14. Distance in miles and direction from nearest town or post office*
Approximately 11.8 miles southeast of Myton, UT

12. County or Parish
Duchesne

13. State
UT

15. Distance from proposed*
location to nearest
property or lease line, ft. Approx. 1205' f/lse, 5300' f/unit
(Also to nearest drig. unit line, if any)

16. No. of acres in lease
1561.03

17. Spacing Unit dedicated to this well
20 Acres

18. Distance from proposed location*
to nearest well, drilling, completed,
applied for, on this lease, ft. Approx. 1485'

19. Proposed Depth
6,676'

20. BLM/BIA Bond No. on file
WYB000493

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
5250' GL

22. Approximate date work will start*
1st Qtr. 2010

23. Estimated duration
(7) days from SPUD to rig release

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the BLM.

25. Signature *Mandie Crozier* Name (Printed/Typed) Mandie Crozier Date 10/27/09

Title
Regulatory Specialist

Approved by (Signature) *Stephanie J Howard* Name (Printed/Typed) Stephanie J Howard Date 1/13/10

Title *Acting* Assistant Field Manager
Lands & Mineral Resources

Office
VERNAL FIELD OFFICE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions on page 2)

NOTICE OF APPROVAL

DEPT OF THE INTERIOR
BUREAU OF LAND MGMT

2010 OCT 29 PM 1:29

RECEIVED
VERNAL FIELD OFFICE

RECEIVED MSS# 10 PRH 0039A

JAN 25 2010

DIV. OF OIL, GAS & MINING

UDOGH

NOS and posted 11-2-2009

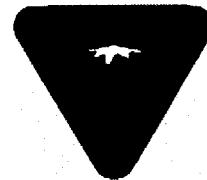


UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	Newfield Production Company	Location:	NWSW, Sec. 21, T8S, R17E
Well No:	Greater Boundary II Federal Q-21-8-17	Lease No:	UTU-76954
API No:	43-013-50175	Agreement:	Greater Monument Butte (GR) Unit

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: ut_vn_opreport@blm.gov .
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

***SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)***

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

**DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

SITE SPECIFIC DOWNHOLE COAs:

Variances Granted

Drilling

- Variance on using a diverter bowl in place of a rotating head. The diverter bowl forces the air and cutting returns to the reserve pit and is used to drill the surface casing (surface to a total depth of 350 feet). The surface casing occurs within the Uinta Formation which is a non-hydrocarbon bearing zone and thus has no possibility of gas pressure.
- Newfield Exploration request permission to use a blooie line with a discharge less than 100 feet from the wellbore in order to minimize the size of the well pads and direct the cuttings and circulating mediums into the reserve pit. The well bore is located approximately 35 feet from the reserve pit which is 40 feet wide; a 100 feet blooie line would discharge the cuttings and circulating mediums across the reserve pit and off the location. The requested length of the blooie line to drill the surface casing (surface to a total depth of 350 feet) is 35 feet. The surface casing occurs within the Uinta Formation which is a non-hydrocarbon bearing zone and thus has no possibility of gas pressure.
- Variance granted on operating without an automatic igniter or continuous pilot light on the blooie line due to the fact the air rig is only used to drill the surface casing (surface to a total depth of 350 feet). The surface casing occurs within the Uinta Formation which is a non-hydrocarbon bearing zone and thus has no possibility of gas pressure.
- Variance granted permission to use a trailer mounted compressor located less than 100 feet from the well bore in order to minimize the well pad size. The trailer mounted compressor is located 50 feet from the wellbore and in an opposite direction of the blooie line. The compressor has the following safety features: (1) shut off valve on the trailer that is located approximately 15 ft from the air rig, (2) pressure relief valve on the compressor, and (3) Spark arresters on the motors. The compressor only used in the drilling of the surface casing (surface to a total depth of 350 feet). The surface casing occurs within the Uinta Formation which is a non-hydrocarbon bearing zone and thus has no possibility of gas pressure.
- Operator must notify BLM Vernal office of any active gilsonite operation within 2 miles of the location 48 hours prior to any blasting on this well location

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.

- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location ($\frac{1}{4}$ Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4.

Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.